

Table of Contents

CURRICULUM VITAE	2
EDUCATION & TRAINING	2
TEACHING	2
BOOKS	3
PEER-REVIEWED BOOK CHAPTERS	4
PEER-REVIEWED JOURNAL PAPERS (CORRESPONDING AUTHOR FOR ALL: PENDYALA V)	5
PEER-REVIEWED CONFERENCE PAPERS	7
OP-EDS	10
ARTICLES INDEXED BY GOOGLE SCHOLAR	12
GRANTS, AWARDS, AND CONTRACTS	12
INTERNATIONAL CONFERENCE TUTORIALS AND WORKSHOPS	13
INTERNATIONAL CONFERENCE KEYNOTES	14
INTERNATIONAL CONFERENCE INVITED TALKS	17
INTERNATIONAL CONFERENCE POSTER PRESENTATIONS	19
WORKSHOPS	19
NATIONAL CONFERENCE KEYNOTES, TALKS, AND PANEL DISCUSSIONS	19
PANELS AND INVITED TALKS AT SYMPOSIA, SEMINARS, AND WORKSHOPS	19
INVITED PANELS AND TALKS TO PROFESSIONAL SOCIETY CHAPTERS	22
INVITED TALKS AT ACADEMIC FORUMS	25
MEDIA COVERAGE	27
EDITORIAL EXPERIENCE	28
JOURNAL PAPER REVIEW ACTIVITY	29
UNIVERSITY, COMMITTEE, AND REVIEW PANEL ROLES	30
AFFILIATIONS	31
COMMUNITY OUTREACH	31
CONFERENCE COMMITTEE CHAIR	32
CONFERENCE ADVISORY COMMITTEE	33
CONFERENCE TECHNICAL PROGRAM COMMITTEE	33
CONFERENCE PUBLICITY COMMITTEE	34
INDUSTRY - AREAS OF EXPERTISE	34
PROFESSIONAL DEVELOPMENT & TRAINING IN THE INDUSTRY	34
STUDENTS AND PROJECTS IN PROGRESS	34
STUDENT PROJECTS COMPLETED	35

Curriculum Vitae

VISHNU S. PENDYALA

SAN JOSE, CA | 408.924.2729 | PENDYALA@COMPUTER.ORG | [HTTPS://WWW.SJSU.EDU/PEOPLE/VISHNU.PENDYALA/](https://www.sjsu.edu/people/vishnu.pendyala/)

University Senator, Faculty in Applied Data Science. IEEE Computer Society Distinguished Contributor. Past ACM Distinguished Speaker. Accomplished, award-winning **Technical Leader** with 25+ years of Silicon Valley industry experience in Technical Management, System software, DevOps, Software Engineering, Release Management, Big Data, Machine Learning, Product Development, Data Protection, and driving continuous improvements. Authored a well-received book on Applying Machine Learning to Veracity of Big Data and edited others on Software Development Environment and Machine Learning. Industry leader with scholarly accolades, 6 Books, 10+ book chapters, 40+ Article Publications, 16 OpEds, 100+ Speaking Engagements, and 5 Editorials. Recognized by Google search as a [public figure](#).

Research Interests

Representation Learning, Generative AI, Responsible, Ethical, and Explainable AI, Mechanistic Interpretability, Foundation Models, Data Engineering

Education & Training

Ph.D., Computer Engineering, Santa Clara University, Santa Clara, CA, 3.8/4.0 GPA
Graduate Studies in Computer Engineering, Stanford University, Palo Alto, CA
MS, Computer Engineering & Certificate, Client-Server Computing,
San Jose State University, San Jose, CA
MBA, Finance and Bachelor of Engineering – Computer Science & Engineering,
Osmania University, Hyderabad, India
State Math Olympiad (Undergraduate) Gold Medalist

Teaching

Faculty, Department of Applied Data Science, SJSU

August 2021 – To Date (All graduate, in person courses)

DATA 245 Machine Learning (Meets Graduate Writing Assessment Requirements)

DATA 225 Database Systems for Analytics DATA 226 Data warehouse and Pipeline

DATA 228 Big Data Technologies and Applications

Visiting Scholar (Part time), Kyungpook National University (KNU), S. Korea

Summer 2025

MOBI0224-001 Deep Learning (online)

[B7] Pendyala, V.S. [Editor], "Tools and Techniques for Software Development in Large Organizations: Emerging Research and Opportunities" published by IGI Global in 2020, included in the libraries of the [US Library of Congress](#), [University of Illinois at Urbana Champaign](#), [Texas A&M](#), and others. <https://www.igi-global.com/book/tools-techniques-software-development-large/234503> Cited in Wikipedia page for software development: https://en.wikipedia.org/wiki/Software_development

Peer-reviewed Book Chapters

- [BC1] Pendyala, V. S., & Haranath, K. (Under Review). AI-Driven Underwater Vehicles and Drones: In-depth exploration of AI-powered underwater vehicles. Case studies highlighting the integration of AI in underwater drones. Elsevier. (Scopus-indexed)
- [BC2] Pendyala, K.V., & Pendyala, V.S. (First Revision). Ethical considerations, bias, and fairness in intelligent systems. *Soft Computing for Web Intelligence: Theory and Applications*. CRC Press. (Scopus-indexed)
- [BC3] Pendyala, V. S., & Chauhan, K., (2025). Large Language Models and XAI: Use-cases, Dependency and Challenges. *Explainable Artificial Intelligence for Trustworthy Decisions in Smart Applications*. Springer. (Scopus-indexed)
<https://www.amazon.com/Explainable-Artificial-Intelligence-Trustworthy-Applications/dp/3031970063/>
- [BC4] Pendyala, V. S., & Thangarajan, V., (2023). Reconnoitering Generative Deep Learning through Image Generation from Text. *Deep Learning Research Applications for Natural Language Processing*. (Scopus-indexed) <https://www.igi-global.com/chapter/reconnoitering-generative-deep-learning-through-image-generation-from-text/314138>
- [BC5] Pendyala, V. S. (2023). Misinformation Containment using NLP and Machine Learning: Why the problem is still unsolved. *Deep Learning Research Applications for Natural Language Processing*. (Scopus-indexed) <https://www.igi-global.com/chapter/misinformation-containment-using-nlp-and-machine-learning/314134>
- [BC6] Pendyala, V. S., & Podali, S. (2022). Machine Learning for Ecological Sustainability: An Overview of Carbon Footprint Mitigation Strategies. *Machine Learning for Societal Improvement, Modernization, and Progress*, 1-26. (Scopus-indexed)
- [BC7] Kumari, A., Madhaw, M., & Pendyala, V. S. (2022). Prediction of Formation Conditions of Gas Hydrates Using Machine Learning and Genetic Programming. In *Machine Learning for Societal Improvement, Modernization, and Progress* (pp. 200-224). IGI Global. (Scopus-indexed)

- [BC8] Pendyala, Vishnu. (2020) "Evolution of integration, build, test, and release engineering into devops and to DevSecOps." *Tools and Techniques for Software Development in Large Organizations: Emerging Research and Opportunities (pp 1-20)*. IGI Global. (Scopus-indexed) Cited in Wikipedia page for software development: https://en.wikipedia.org/wiki/Software_development
- [BC9] Williams, L., Beck, K., Creasey, J., Glover, A., Holman, J., Humble, J., McLaughlin, D., Micco, J.T., Murphy, B., Cox, J.A. and Pendyala, V., "Continuous Deployment Transitions at Scale." *Tools and Techniques for Software Development in Large Organizations: Emerging Research and Opportunities*. IGI Global, 2020. 168-181. (Scopus-indexed)
- [BC10] Pendyala, V. S., & Holliday, J. (2011). Cloud as a Computer. *Advanced Design Approaches to Emerging Software Systems: Principles, Methodologies and Tools: Principles, Methodologies and Tools*, 241. (Scopus-indexed)

Peer-reviewed Journal Papers (Corresponding Author for all: Pendyala V)

- [J1] Pendyala, V.S., Konduri, S., Pendyala, K.V., (Accepted) Exploring Music Representation Learning for Detection of Finer-grained Details. *Multimedia Tools and Applications*, Springer, [Q1 journal Impact Factor: 3; Impact Score: 12.5; Highest Google h5-index score in the field of multimedia h5-index:120; h5-median:165.](#)
- [J2] Pendyala, V. S., Kapadia, M., Periyapatnaroopakumar, B., Anandani, M., & Nagendran, N. (2025). A Big Data Pipeline Approach for Predicting Real-Time Pandemic Hospitalization Risk. *Algorithms*, 18(12), 730. [Impact Factor: 2.1, CiteScore 4.5, CiteScore Q1/Q2 journal indexed in Scopus. h5-index:56 h5-median:85](#) Received APC waiver (~\$2,250) from the publisher. <https://doi.org/10.3390/a18120730>
- [J3] Pendyala, V.S., Thakur, N.B., (2025). [Performance and Interpretability Analysis of Code Generation Large Language Models](#). Elsevier, *Neurocomputing*, [Q1 journal \(CiteScore 13.6, Impact Factor 6.5 h5 index: 148, h5 median: 211, Ranked #8 in Artificial Intelligence\)](#) <https://doi.org/10.1016/j.neucom.2025.131461>
- [J4] Pendyala, V.S., Venkatachalam, N. (2025). The effectiveness of Kolmogorov-Arnold Networks in the healthcare domain. *Appl. Sci.*, 15(16), 9023. [Impact Factor: 2.5, CiteScore 5.5, Q1 journal for engineering indexed in Scopus. h5-index:188 h5-median:260; Ranked #5 in Engineering & Computer Science \(general\)](#) Received APC waiver (~\$3,000) from the publisher. <https://doi.org/10.3390/app15169023>

- [J5] Pendyala, V.S., Thakur, N.B., Agarwal, R., (2025). Explainable Use of Foundation Models for Job Hiring. *Electronics*, 14(14), 2787. [Impact Factor: 2.6, CiteScore 6.1, Q2 journal](#) indexed in Scopus. [h5-index:116 h5-median:158](#); Ranked #20 in [Engineering & Computer Science \(general\)](#) Received APC waiver (~\$3,000) from the publisher. <https://doi.org/10.3390/electronics14142787>.
- [J6] Pendyala, V.S., Kamdar, K., & Mulchandani, K. (2025, January). Automated Research Review Support Using Machine Learning, Large Language Models, and Natural Language Processing. *Electronics*, 14(2), 256. [Impact Factor: 2.6, CiteScore 6.1, Q2 journal](#) indexed in Scopus. [h5-index:116 h5-median:158](#); Ranked #20 in [Engineering & Computer Science \(general\)](#) Received APC waiver (~\$2,700) from the publisher.
- [J7] Pendyala, V. S., & Chintalapati, A. (2024, November). Using Multimodal Foundation Models for Detecting Fake Images on the Internet with Explanations. *Future Internet*. 2023 [Impact Factor: 2.8 CiteScore: 7.1, Q1 \(87/395\)](#) journal indexed in Scopus. [h5-index: 74 h5-median: 113](#) Received APC waiver (~\$1,800) from the publisher.
- [J8] Konduri, S., Pendyala, K. V., & Pendyala, V. S. (2024, July). KritiSamhita: A Machine Learning Dataset of South Indian Classical Music Audio Clips with Tonic Classification. *Data in Brief*, 110730, Elsevier. [h5-index:57 h5-median:81; Citescore: 3.1, Impact Factor: 1.4](#); Indexed by US government: <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC11286976/>
- [J9] Pendyala, V. S., & Patil, M. (2024, July). Multi-Link Prediction for mmWave Wireless Communication Systems using Liquid Time-Constant Networks, Long Short-term Memory, and Interpretation using Symbolic Regression. *Electronics*. [Impact Factor: 2.6, CiteScore 5.3, Q2 journal](#) indexed in Scopus. [h5-index:116 h5-median:158](#); Ranked #20 in [Engineering & Computer Science \(general\)](#) Received APC waiver (~\$2,700) from the publisher. Indexed in the [Open Ukrainian Scientific Content Initiative](#).
- [J10] Pendyala, V. S., & Hall, C. E. (2024, May). Explaining Misinformation Detection Using Large Language Models. *Electronics*, 13(9), 1673. [Impact Factor: 2.9, CiteScore 4.7, Q2 journal](#) indexed in Scopus. Received APC waiver (~\$2,700) from the publisher. Funded by SJSU's Undergraduate Research Opportunity Program (UROP). [h5-index:116 h5-median:158](#); Ranked #20 in [Engineering & Computer Science \(general\)](#)
- [J11] Pendyala, V.S., Kim, H. (2024). Assessing the Reliability of Machine Learning Models Applied to the Mental Health Domain Using Explainable AI. *Electronics*. Special Issue on Machine Learning for Biomedical Applications. [Impact Factor: 2.9, CiteScore 4.7, Q2 journal](#) indexed in Scopus. [h5-index:116 h5-median:158](#); Ranked #20 in [Engineering & Computer Science \(general\)](#). Received APC waiver (~\$2,700) from the publisher.

- [J12] Pendyala, V., & Amireddy, R. (2022). Enhancing the Cognition and Efficacy of Machine Learning Through Similarity. *SN Computer Science*, 3(6), 1-14. Springer. [Q2 Journal](#); Scopus indexed, [Impact Factor: 3.758](#); [Research Impact Score: 3.1](#); Journal Citescore: 3.9. [h5-index:76](#) [h5-median:99](#)
- [J13] Pendyala, V. S., Yadav, N., Kulkarni, C., & Vadlamudi, L. (2022). Towards building a Deep Learning based Automated Indian Classical Music Tutor for the Masses. *Systems and Soft Computing*, 4, 200042. Elsevier. Scopus indexed, [Citescore: 3.1](#). [Impact Factor: 3.6](#); [Q2 journal](#); [h5-index:18](#) [h5-median:26](#)
<https://www.sciencedirect.com/science/article/pii/S2772941922000084>
- [J14] Pendyala, V. S., Liu, Y., & Figueira, S. M. (2018). A framework for detecting injected influence attacks on microblog websites using change detection techniques. *Development Engineering*. Elsevier.
<https://www.sciencedirect.com/science/article/pii/S235272851830023X>
- [J15] Pendyala, V. S., Shim, S. S., Bussler, C. (2015, May). The Web that Extends beyond the World. *Computer*. IEEE.
- [J16] Pendyala, V. S., & Shim, S. S. (2009). The Web as the ubiquitous computer. *Computer*, (9), 90-92. IEEE.
- [J17] Shim, S. S., Bhalla, G., & Pendyala, V. (2005). Federated identity management. *Computer*, 38(12), 120-122.
- [J18] Shim, S. S., Pendyala, V. S., Sundaram, M., & Gao, J. Z. (2000). Business-to-business e-commerce frameworks. *Computer*, 33(10), 40-47.

Peer-reviewed Conference Papers

- [C1] Pendyala, V.S. and Patil, M., (2026, January 10) Fusing Channel State Information and Computer Vision in an Agentic AI Workflow for Accurate Human Activity Recognition and Crisis Prevention. 9th International Conference on Computational Intelligence in Data Science (ICCIDS 2026). IEEE. Sivasubramaniya Nadar College of Engineering, Kalavakkam, Chennai, India. In person. <https://iccids.in/> Acceptance rate: 17.8%, [h5-index:11](#) [h5-median:13](#)
- [C2] Pendyala, V.S., (2025, September 16). Revisiting Representation Learning for Natural Language Processing from the Fundamentals for Misinformation Detection. 8th International Conference on Information Science and Systems (ICISS 2025), Springer. Oxford University, UK (presented virtually) [h5-index:11](#) [h5-median:20](#).

- [C3] Pendyala, V.S., (2024, December 18). The Impact of Artificial Intelligence on Eco-justice and Ethics. *Proceedings of the 12th ACM IKDD CoDS and 30th COMAD, Jodhpur, India*. ACM. [h5-index:19](#) [h5-median:27](#)
<https://dl.acm.org/doi/10.1145/3703323.3704279>
https://camps.aptaracorp.com/ACM_PMS/PMS/ACM/CODSCOMADDEC24/99/aca9a2bc-a08b-11ef-ada9-16bb50361d1f/OUT/codscomaddec24-99.html
- [C4] Konduri, S., & Pendyala, V.S., (2024, December 13). Large Language Models for Quantitative Analysis of Statutory Stringency and its Correlation with Sexual Assault Crime Rates. *Proceedings of the 14th International Advanced Computing Conference (IACC-2024), Bali, Indonesia*. (presented virtually). Springer. [h5-index: 606](#); [h10-index: 305](#); [Acceptance Rate: 19%](#); [Impact Factor: 5.56](#)
https://link.springer.com/chapter/10.1007/978-3-031-84602-1_6
- [C5] Pendyala, V.S., (2024, December 13). Unraveling the Enigma of Classification of Synthetic and Genuine Information Using Machine Learning and Explainable AI. *Proceedings of the 14th International Advanced Computing Conference (IACC-2024), Bali, Indonesia*. (presented virtually). Springer. [h5-index: 606](#); [h10-index: 305](#); [Acceptance Rate: 19%](#); [Impact Factor: 5.56](#)
- [C6] Pendyala, V. S., Konduri, S., & Pendyala, K.V. (January 2024). Analysis of Multilanguage Regional Music Tracks using Representation Learning Techniques in Lower Dimensions. 10th International Conference on Mathematics and Computing, ICMC 2024, Proceedings published by Springer in its “Lecture Notes in Networks and Systems” series, indexed in Scopus. Professors from MIT, Purdue, UT Dallas and other reputed universities from around the world delivered keynote addresses <http://icmc2024.kalasalingam.ac.in/index.php/speakers/> at the conference <https://youtu.be/G-K6EtujCKA?t=7101> (Won “Overall Best Paper Award”). https://link.springer.com/chapter/10.1007/978-981-97-2066-8_14. The co-authors are high school students. [H5-index: 10](#), [h5-median: 15](#)
- [C7] Pendyala, V. S., Akhavan, F. (2023, June). Spectral analysis perspective of why misinformation containment is still an unsolved problem. In *IEEE Conference on Artificial Intelligence (IEEE CAI 2023)* IEEE.
- [C8] Pendyala, V. S., Kim, H. (2023, January). Analyzing and Addressing Data-driven Fairness Issues in Machine Learning Models used for Societal Problems. In *International Conference on Computer, Electrical & Communication Engineering (ICCECE 2023)* IEEE. (Won “Overall Best Research Paper Award”; Acceptance rate: 15%). Professors from Cornell, University of Illinois, and other reputed universities from around the world delivered keynote addresses <https://www.iccece.com/iccece23/index1.php?id=1> at the conference.

- [C9] Pendyala, V. S., Atrey, N., Aggarwal, T., & Goyal, S. (2022, December). Artificial Intelligence Enabled, Social Media Leveraging Job Matching System for Employers and Applicants. In *IEEE International Conference on Recent Trends in Microelectronics, Automation, Computing and Communication Systems (ICMACC)* IEEE. (Acceptance rate: 25% - 104 out of 420 papers were accepted [h5-index:8](#) [h5-median:9](#)). Cited in the US Patent 11,972,397, 2024.
- [C10] Pendyala, V. S., Atrey, N., Aggarwal, T., & Goyal, S. (2022, August). Enhanced Algorithmic Job Matching based on a Comprehensive Candidate Profile using NLP and Machine Learning. In *2022 IEEE Eighth International Conference on Big Data Computing Service and Applications (BigDataService)* (pp. 183-184). IEEE. [H5-index: 17](#) [h5-median: 33](#)
- [C11] Pendyala, V. S. (2022). Relating Machine Learning to the Real-World: Analogies to Enhance Learning Comprehension. In *International Conference on Soft Computing and its Engineering Applications* (pp. 127-139). Springer CCIS. Scopus indexed. [h5-index:6](#) [h5-median:8](#)
- [C12] Surana, R., Varshney, A., & Pendyala, V. (2022). Deep Learning for Conversions Between Melodic Frameworks of Indian Classical Music. In *Proceedings of Second International Conference on Advances in Computer Engineering and Communication Systems* (pp. 1-12). Springer, Singapore. <https://link.springer.com/book/9789811673887>, https://link.springer.com/chapter/10.1007/978-981-16-7389-4_1
- [C13] Tyagi, S., Kumari, R., Makkena, S. C., Mishra, S. S., & Pendyala, V. S. (2020, December). Enhanced Predictive Modeling of Cricket Game Duration Using Multiple Machine Learning Algorithms. In *2020 International Conference on Data Science and Engineering (ICDSE)* (pp. 1-9). IEEE.
- [C14] Pendyala, V.S. (2019). "Securing Trust in Online Social Networks" published in the Proceedings of the 8th International Conference on Secure Knowledge Management in Artificial Intelligence Era, SKM-2019. Springer.
- [C15] Pendyala, V. S., & Figueira, S., (2017, April). Automated Medical Diagnosis from Clinical Data. In *2017 IEEE Third International Conference on Big Data Computing Service and Applications* IEEE.
- [C16] Pendyala, V. S., Figueira, S., (2015, October). Towards a Truthful World Wide Web. In *Global Humanitarian Technology Conference (GHTC)*, 2015 IEEE.
- [C17] Pendyala, V. S., Fang, Y., Holliday, J., & Zalzal, A. (2014, October). A text mining approach to automated healthcare for the masses. In *Global Humanitarian Technology Conference (GHTC)*, 2014 IEEE (pp. 28-35). IEEE.

- [C18] Pendyala, V. S., & Holliday, J. (2010, September). Performing Intelligent Mobile Searches in the Cloud Using Semantic Technologies. In IEEE GrC (pp. 381-386).
- [C19] Pendyala, V. S., Shim, S. S., & Gao, J. Z. (2003, June). An XML based framework for enterprise application integration. In E-Commerce, 2003. CEC 2003. IEEE International Conference on (pp. 128-135). IEEE.

Op-Eds

- [O1] [OpEd] Pendyala, V.S. (2025, March 7). Why San Jose State University deserves a UC future. San Jose Spotlight, Apple News, MSN, etc. <https://sanjosespotlight.com/pendyala-why-san-jose-state-university-deserves-a-uc-future>; https://apple.news/Ac8GC1_HmRLOfT6glFbvdKw; <https://www.msn.com/en-us/money/careersandeducation/pendyala-why-san-jose-state-university-deserves-a-uc-future/ar-AA1AtCXq>; <https://x.com/SJSpotlight/status/1898103442415272110>
- [O2] [OpEd] Pendyala, V.S. (2025, February 22). Data-based checks and bicameral balancing of Executive Orders. Fulcrum, Apple News, MSN, etc. <https://apple.news/AQMiCiLCuTtyQkPu2K4VPag>; <https://www.msn.com/en-us/politics/government/data-based-checks-and-bicameral-balancing-of-executive-orders/ar-AA1zyxhq>; <https://thefulcrum.us/media-technology/checks-and-balances-for-executive-orders>
- [O3] [OpEd] Pendyala, V.S. (2024, October 11). One Way to Fight Misinformation. The Epoch Times, California Insider, Apple News, etc. https://apple.news/AQAAAJ_IRTR-rRnYlco-ztA; <https://www.theepochtimes.com/opinion/one-way-to-fight-misinformation-5737667>; <https://californiainsider.com/news/one-way-to-fight-misinformation-5737667>
- [O4] [OpEd] Pendyala, V.S. (2024, August 11). Public records data must be off-limits for AI. **The Hill**, Apple News, MSN News, George Magazine, Politomix, Total News, etc. According to Wikipedia, “in 2020, The Hill was ranked 2nd for online politics readership across all news sites, behind only [CNN](https://www.cnn.com/). The Hill has around 32 million monthly viewers in 2023.” <https://thehill.com/opinion/technology/4820294-ai-data-public-records-privacy/>; <https://georgemagazine.com/public-records-data-must-be-off-limits-for-ai/>; <https://en.pressbee.net/show3177239.html?title=public-records-data-must-be-off-limits-for-ai> Featured in The Foundation for Defense of Democracies (FDD) overnight brief: <https://www.fdd.org/overnight-brief/august-12-2024/>
- [O5] [OpEd] Pendyala, V.S. (2024, August 6). Harnessing Artificial Intelligence for an Affordable Quality of Life. *VISIBLE Magazine*, <https://visiblemagazine.com/harnessing-artificial-intelligence-for-an-affordable-quality-of-life/>

[O6] [OpEd] Pendyala, V.S. (2024, July 25). Will AI be another unsustainable environmental disaster? Newsweek, Apple News+, MSN news, and more

<https://www.newsweek.com/will-ai-another-unsustainable-environmental-disaster-opinion-1928737>, <https://www.msn.com/en-us/money/technology/will-ai-be-another-unsustainable-environmental-disaster-opinion/ar-BB1qBNLY>

[*Newsweek reaches 100 million people each month*]

[O7] [OpEd] Pendyala, V.S. (2024, June 12). How Bay Area cities can leverage the power of AI to build safer, more secure communities. Local News Matters, MSN news, Piedmont

Exedra, <https://localnewsmatters.org/2024/06/12/how-bay-area-cities-can-leverage-the-power-of-ai-to-build-safer-more-secure-communities/>; <https://www.msn.com/en-us/news/technology/how-bay-area-cities-can-leverage-the-power-of-ai-to-build-safer-more-secure-communities/ar-BB1o6PNm> ; <https://piedmontexedra.com/2024/06/how-bay-area-cities-can-leverage-the-power-of-ai-to-build-safer-more-secure-communities>

[O8] [OpEd] Pendyala, V.S. (2024, May 9). How artificial intelligence can transform St. Louis traffic. published in the 145 year old newspaper, St. Louis Post-Dispatch, endorsed by several US Presidents (https://en.wikipedia.org/wiki/St._Louis_Post-Dispatch).

https://www.stltoday.com/opinion/column/opinion-how-artificial-intelligence-can-transform-st-louis-traffic/article_afe7477a-0bdc-11ef-a954-3f2ba9f648f6.html

[O9] [OpEd] Pendyala, V.S. (2024, April 11). Why Scientific Publishing Culture Needs a Major Overhaul in the age of Generative AI. *VISIBLE Magazine*,

<https://visiblemagazine.com/why-scientific-publishing-culture-needs-a-major-overhaul-in-the-age-of-generative-ai/>

[O10] [Expert Opinion] 2024, April 8. This Bay Area city is using AI to detect homeless camps. Will others follow suit? Front page of Sunday's *San Jose Mercury News*, *East Bay Times*, and others. <https://www.mercurynews.com/2024/04/07/san-jose-ai-homeless-camps-rvs/>

[O11] [OpEd] Pendyala, V.S. (2023, December 22). Artificial intelligence can take the politics out of policymaking. *Fulcrum*, *Apple News*, and others.

https://apple.news/A0WCzOrT7Txmp-fnltq_xhA, <https://thefulcrum.us/Business--Democracy/Innovation--Incubation/ai-government>

[O12] [OpEd] Pendyala, V.S. (2023, November 24). Toward an AI-Driven Democracy. *Newsweek*, *Apple News+*, *Microsoft Network*, *Qoshe*, and others.

<https://www.newsweek.com/toward-ai-driven-democracy-opinion-1845423>, <https://www.msn.com/en-us/news/other/toward-an-ai-driven-democracy-opinion/ar-AA1kt2vP>, <https://qoshe.com/newsweek/vishnu-s-pendyala/toward-an-ai-driven-democracy/167763882>

[*Newsweek reaches 100 million people each month*]

[O13] [OpEd] Pendyala, V.S. (2023, November 02). The Rapid Pace of Innovation Calls for a Drastic Revamp of the National Science Foundation. *Epoch Times, California Insider*.

<https://www.theepochtimes.com/opinion/the-rapid-pace-of-innovation-calls-for-a-drastic-revamp-of-the-national-science-foundation-5521829> and

<https://californiainsider.com/news/the-rapid-pace-of-innovation-calls-for-a-drastic-revamp-of-the-national-science-foundation-b948dae1ab01022c59d62ec9b43573f8>

[O14] [OpEd] Pendyala, V.S. (2023, October 23). Want a 4-day workweek? Invest in AI. *Fast Company*. Google search of the title in double quotes showed 1,640 results in just one day. *Fast Company, Apple News, and others*.

<https://www.fastcompany.com/90970694/want-a-four-day-work-week-invest-in-ai>
<https://apple.news/AfGhPFI3QqelX2S3enB3Zg>

[O15] [OpEd] Pendyala, V.S. (2022, February 02). It is time to leave ‘caste’ behind. *Indica News*. <https://indicanews.com/it-is-time-to-leave-caste-behind/>

[O16] [OpEd] Pendyala, V. S. (2021, August 13). Should the US Constitution Be Amended to Limit Borrowing From the Future? *The Epoch Times, California Insider*. Translated into Chinese as “Famous column”. <https://www.epochtimes.com/gb/21/8/17/n13168372.htm> and <https://californiainsider.com/news/should-the-us-constitution-be-amended-to-limit-borrowing-from-the-future-af15e15dcd25b37b9fd12e1f81ec822a>

Articles indexed by Google scholar

[A1] [Preprint] Pendyala, V. S., & Dutta, M. (2024). Experiments with truth using Machine Learning: Spectral analysis and explainable classification of synthetic, false, and genuine information. *arXiv preprint arXiv:2407.05464*.

[A2] Pendyala, V. S. (2017, October). The Case for a Humanitarian Web Made Possible by Big Data Analytics. *Visleshana*. Vol. 2., No. 1. Computer Society of India.

[A3] Pendyala, V. S. (2017, July). Towards Automated Healthcare for the Masses Using Text Mining Analytics. *Visleshana*. Vol. 1., No. 4. Computer Society of India.

[A4] Pendyala, V. S. (2018, January). Big Data Analytics Research in India – A Perspective. *Visleshana*. Vol. 2., No. 2. Computer Society of India.

FUNDING AND RECOGNITION

Grants, Awards, and Contracts

[G1] Collaborator and contributor to proposal writing for Research Infrastructure grant [NSF 2430291](#) awarded for \$628,773 and NSF 2503143 that is under review.

- [G2] AMD's High-Performance Compute Fund, 9/27/2023 - 9/30/2024.
- [G3] Public Voices Fellowship - a national initiative by The OpEd project. Fall 2023 – Spring 2024.
- [G4] SJSU/CPGE/RSCA Summer Research Stipend, Summer 2024.
- [G5] Pendyala, PI, SJSU RSCA Seed Grant, Summer Fellowship, June 1, 2023 – May 31, 2025.
- [G6] Pendyala, PI, University Grants Academy (UGA), SJSU, Summer Fellowship, June 6 – August 15, 2022.
- [G7] Sustainability Across the Curriculum Award from Provost, SJSU, Spring 2023.
- [G8] Selected for participation in eCampus Immersive Learning Institute (Spring 2023), Adding Interactivity to Your Online Course (Spring 2022).
- [G9] Mentor, Learning Aligned Employment Program (LAEP), State of California, Fall 2022.
- [G10] 2023 Student RSCA Assistantship Program award 23-SRA-07-027, Division of Research and Innovation, SJSU

SELECT SPEAKING ENGAGEMENTS

International Conference Tutorials and Workshops

- [T1] Innovative Pedagogies for AI/ML Education for a Diverse Future (2025, 09 December). Interactive workshop at ACM COMPUTE, IIT Ropar, India.
- [T2] The Transformative Role of Emerging Artificial Intelligence on Ethical Paradigms (2025, 04 August). Tutorial session at IEEE International Conference on Omni-layer Intelligent systems (IEEE COINS 2025), University of Wisconsin–Madison, USA (presented virtually). IEEE. <https://coinsconf.com/> h5-index:21 h5-median:45 Ranked 555
- [T3] Social and Environmental Sustainability of Generative AI (2025, 04 January). Workshop session at Conference on Recent Advances in Sustainable Engineering and Future Technologies (RASEFT 2024), IEEE Hyderabad Section, Matrusri Engineering College, Hyderabad, India (presented in person). IEEE. <https://raseft-2024.matrusrisociety.org/>
- [T4] Social and Environmental Implications of the AI boom (2024, 20 December). Half-day Tutorial session at the 12th International Conference on Big Data and Artificial Intelligence

(BDA 2024), University of Hyderabad, India (in person). <https://scis.uohyd.ac.in/confs/bda-2024/tutorials.html>

[T5] The Impact of Artificial Intelligence on Eco-justice and Ethics (2024, 18 December). Tutorial session at the *12th ACM IKDD CoDS and 30th COMAD, Indian Institute of Technology (IIT), Jodhpur, India (in person)*. ACM. [h5-index:19](#) [h5-median:27](#) <https://cods-comad.in/tutorials.php>

[T6] Machine Learning and other Approaches to the truthfulness of information on Online Social Networks, IEEE ANTS 2018 December 16, 2018. Half-a-day Tutorial to ~60 attendees of the IEEE ComSoc's flagship conference. <https://ants2018.ieee-comsoc-ants.org/about/tutorials/> , IIT Indore.

International Conference Keynotes

[T7] (Scheduled) Leveraging AI for Driving the Next Era of Computational Intelligence and Digital Transformation (15 January 2026) at the International Conference on Computational Intelligence, Data Science and Digital Transformations (ICCIDS DT 2026). Springer. Maulana Azad National Urdu University, Hyderabad, India. In person. <https://manuu.edu.in/ICCIDS DT 2026/#keynote-speakers>

[T8] (Scheduled) AI or Die - or AI and Die? (10 January 2026) at 3rd World Congress on Smart Computing (WCSC2026). Springer. Organized by Soft Computing Research Society. Novotel Bangkok on Siam Square, Bangkok, Thailand. Delivered virtually. <https://scrs.in/conference/wcsc2026/speaker/talk/1883>

[T9] (Scheduled) A Critical Outlook on AI's Impact on Data Science (9 January 2026) at the 9th International Conference on Computational Intelligence in Data Science (ICCIDS 2026). IEEE. Sivasubramaniya Nadar College of Engineering, Kalavakkam, Chennai, India. In person. <https://iccids.in/>

[T10] The enablers, use cases, and future trends of the AI imperative. (5 December 2025). International Conference on Recent Trends in Intelligent Computing, Manufacturing and Electronics (rTime-2025). Springer. Organized by National Institute of Advanced Manufacturing Technology (NIAMT), Ranchi, India. <https://niamt.ac.in/UserView/UserView.aspx?TypeID=1402> ; <https://rtime2025.netlify.app/> <https://www.youtube.com/watch?v=RLjFa9evoYc>

[T11] The rise of Artificial Intelligence and its consequences. (15 November 2025). 3rd International Conference on Big Data, Computational Intelligence, and Applications, (BDCIA 2025) Huanggang, China. <http://www.bdcia.org/Program/>

[T12] New Frontiers in AI. Conference keynote (2025, 12 April) at International Conference on NextGen Data Science and Analytics (ICNDSA-2025), Christ University, Delhi NCR Campus, India. IEEE. (virtual presentation) <https://ncndsa.christuniversity.in/index.html>

[T13] Is Artificial Intelligence Sustainable? (2024, 21 December). Keynote at the Second International Conference on Recent Trends in Microelectronics, Automation, Computing, and Communication Systems (ICMACC-24), Vallurupalli Nageswara Rao Vignana Jyothi Institute of Engineering and Technology, Hyderabad, India (in person). IEEE. <https://icmacc.org/eventSchedule/> https://www.youtube.com/watch?v=_n0hzXbKQ0w

[T14] Security, Privacy, and Social Sustainability in the AI era (2024, 14 December). Keynote at the Third International Conference on Security, Privacy and Data Analytics (ISPDA 2024) at National Institute of Technology, Patna, India (presented virtually). Springer. <https://ispda.in/>

[T15] The Crossroads of Intelligence: Responsible use of AI as it reshapes humanity (2024, 20 January). Virtual keynote address at 4th International Conference on Neural Networks, Information and Communication Engineering (NNICE 2024 / ICCECE 2024). IEEE. Harbin, China. <http://icnnice.com/Speakers?pf=1>

[T16] Responsible AI Is Everyone's Responsibility! (2024, 4 January). Keynote address at 10th International Conference On Mathematics And Computing ICMC 2024, [H5-index: 10](#), [h5-median: 15](#). In-person at Kalasalingam Academy of Research and Education, India. Other speakers were from MIT, Purdue, University of Minnesota, IITs, and other highly reputed institutions from around the world. <http://icmc2024.kalasalingam.ac.in/index.php/vishnupendyala/> ; <https://youtu.be/cegd5itOgUg?t=7359> Slides: <https://works.bepress.com/vishnupendyala/57/>

[T17] The Social Predicament of Artificial Intelligence (2023, 22 December). Plenary speech at International Conference on Advances in Computational Intelligence and Informatics ICACII 2023. In-person at Anurag University, Hyderabad, India <https://anuragweb.club/icacii2023/plenary.html>, <https://www.youtube.com/watch?v=4ggfG9r6aGM>

[T18] When Artificial Intelligence Meets Social Sustainability (2023, 15 December). Keynote address at International Conference on Data Science, Machine Learning and Applications: ICDSMLA 2023. In-person at G.Narayanamma Institute of Technology & Science (GNITS), Hyderabad, India. <https://www.icdsmla.com/speakers>

[T19] Societal Implications of Artificial Intelligence and the Path Forward (2023, 3 November). Keynote address at International Conference on Big Data, Computational Intelligence and Applications (BDCIA2023, Huanggang, China, <http://www.bdcia.org/Speakers/>). Virtually presented.

[T20] ICCECE 2023 Keynote, “Towards a fair and unbiased application of machine learning models for social good” <https://iccece.com/index1.php?id=1> IEEE International Conference on Computer, Electrical & Communication Engineering (2023, 21 January). Kolkata, India. Other keynote speakers at the conference include Prof. Amit Lal, [Cornell University](#), Prof. Sanghamitra Bandyopadhyay, [IEEE Fellow](#), Prof. V. Ramgopal Rao, [IEEE Fellow](#), Prof. Dan Schonfeld, [University of Illinois](#), Prof. Muriel Médard, Massachusetts Institute of Technology ([MIT](#)).

[T21] ICMACC 2022 Keynote, “Deep Learning Similarities: Techniques, Applications, and Future Directions” <https://iee-icmacc.org/keynote.html> IEEE International Conference on Recent Trends in Microelectronics, Automation, Computing and Communication Systems, (2022, 28 December). Other keynote speakers include Prof. Keshab K. Parhi, [University of Minnesota](#), and Prof. Alex James, [Griffith University](#). Slides: <https://works.bepress.com/vishnu-pendyala/44/>

[T22] IACC 2022 Plenary Session, “Advances in Processing Time-series Data” <https://computingconf.com/speaker.php> Springer 12th International Advanced Computing Conference, H5-Index: 606, H10-Index: 305 Acceptance rate: 19%, Scopus indexed (2022, 16th December). Other speakers include Dr. Jaume Anguera, [IEEE Fellow](#), Dr Marta R. Jabłońska, University of Lodz, Poland.

[T23] ICACCE-2022 (IEEE) Keynote: Opportunities and Challenges in Machine Learning (2022, 17 October) <https://www.youtube.com/watch?v=XjwbdRUWKDk>

[T24] IEEE GHTC 2022 Plenary: Minimizing the Ecological Footprint using Machine Learning (2022, 10 September). Santa Clara University <https://www.youtube.com/watch?v=9bN-bdO83lM> 12th **IEEE Global Humanitarian Technology Conference** [IEEE’s [signature conference](#) on Humanitarian Technologies] Slides: <https://works.bepress.com/vishnu-pendyala/43/> [h5-index:14](#), [h5-median:23](#)

[T25] Keynote (2022, 11 January). Emerging Trends, Issues and Challenges in Machine Learning and Big Data, AICTE (Government of India) and ISTE sponsored induction / refresher online program for faculty, organized by University of Engineering and Management, Jaipur, India (60+ professors of various ranks from all over the country in attendance). <https://www.linkedin.com/feed/update/urn:li:activity:6886544165967032321/>

[T26] Plenary talk (2021, 19 December). In Springer’s 11th International Advanced Computing Conference (IACC ‘21), Malta. (In the world’s top 1% conferences; H5-Index 412 and overall H-Index 32; indexed in ISI, Scopus, DBLP, Compendex, SJR, Google Scholar etc.). <https://computingconf.com/speakers.php>

[T27] Keynote Address. Pendyala V.S., (2021, April). In International Conference on AI/ML in Management practices and Business operations: A future perspective, organized by Rukmini Devi Institute of Advanced Studies (RDIAS), Delhi, India <https://www.facebook.com/rdiasofficial/photos/a.384355461634023/3966582990077901/>

[T28] Keynote Address. Pendyala V.S., (2020, January). In International Conference on Computer, Electrical & Communication Engineering (IEEE Conference ID 48148) <http://www.iccece.com/iccece20/index1.php?id=1>

[T29] Keynote Address. Pendyala, V. S., (2017, December). Addressing Uncertainty on the Web. In International Conference on Intelligent Communication and Computational Techniques (ICCT 2017). IEEE. <https://jaipur.manipal.edu/muj/news-events/news-list/1st-International-Conference-on-Intelligent-Communication.html>

[T30] Keynote Address. Pendyala, V. S., (2016, December). Math Never Lies: Machine Learning for Fact Finding. In International Conference on Information Technology. IEEE. <http://icit.github.io/program/technical.html>

[T31] Keynote Address: Pendyala, V. S., (2016, December). Quantifying Truth in Big Data: Mathematical Approaches. In International Conference on Electrical, Electronics, Communication, Computers and Optimization Techniques. IEEE. <http://iceccot.geethashishu.in/iceccot2018/iceccot2017/iceccot2016.html>

[T32] Keynote Address. (2015, December). Big Data Analytics and Cloud Computing for Humanitarian Causes. BDACCOU '15 organized by Computer Society of India (SIG Big Data) and Osmania University.

International Conference Invited Talks

[T33] Invited talk (2025, 26 July) “The evolving realms of AI” 8th International Conference on Machine Learning and Machine Intelligence (MLMI 2025), Kyoto, Japan (presented virtually) <https://mlmi.net/invited.html> h5-index:8 h5-median:25

[T34] ISAIC 2022 Invited Talk, “Emerging Trends in Learning from Sequential Data” <https://www.isaic-conf.com/#/aboutIsaicSpeakers2022> Scopus indexed (2022, 11th December). International Symposium on Automation, Information and Computing. Beijing Jiaotong University, China (presented virtually). Other speakers include multiple IEEE Fellows and professors from Japan, UK, Italy, and other countries.

[T35] Invited talk (2021, 11 December). In International Conference on Soft Computing (icSoftComp2021), India. Scopus indexed proceedings published by Springer CCIS. <https://www.charusat.ac.in/icSoftComp2021/speakers.php>

[T36] Invited talk (2021, 5 December), In International Symposium on Automation, Information and Computing (ISAIC 2021), Organized by Jiaotong University, Beijing. Invited speakers include Prof. Radu Grosu of the Liquid Neural Networks fame <https://www.isaic-conf.com/#/aboutIsaicInvitedSpeakers>

[T37] The Pandemic of Falsity on Online Social Networks and Plausible Cures from Machine Learning, International Symposium on Automation, Information and Computing (ISAIC 2020), 2nd – 4th December 2020, Organized by Jiaotong University, Beijing. <https://www.isaic-conf.com/#/aboutIsaicPreviousKeynoteSpeakers> Slides: <https://works.bepress.com/vishnu-pendyala/24/>

[T38] The Other Pandemic and the Role of Machine Learning in its Spread and Containment, International Conference on Soft Computing and its Engineering Applications (icSoftComp2020), December 11-12, 2020 <https://www.charusat.ac.in/icSoftComp2020/speakers.php>

[T39] Invited Talk. Pendyala, V. S., (2017, December). In Pursuit of Truth on the Web: Soft Computing for Truth Finding. In International Conference on Soft Computing and its Engineering Applications. IEEE. https://www.charusat.ac.in/icsoftcomp2017/01_Program_schedule.pdf

International Conference Panel Discussions

[T40] Importance of Mathematics and Computing for All Round Development of our Nation (2024, 5 January). Panel discussion as part of the 10th International Conference On Mathematics And Computing ICMC 2024. In-person at Kalasalingam Academy of Research and Education, India. <https://youtu.be/R9UIQxQOa9o?t=16214>

[T41] IEEE Conference on Artificial Intelligence (IEEE CAI '23) Panel Discussion, “Evolving landscape of Responsible AI,” with Mrinal Karvir and Ned Hayes (2023, 5 June). Santa Clara, CA. https://ieeecs-media.computer.org/media/conferences/cai/CAI2023_DraftProgram.pdf <https://cai.ieee.org/2023/panels/>, Video Recording: <https://resourcecenter.cis.ieee.org/conferences/cai-2023/ciscai2023conf0090>

[T42] Panel discussion on "Future Trends: The Quantum Leap for Cybersecurity and More" at annual Silicon Valley Cybersecurity Conference <https://www.svcc2023.svcsi.org/> with Das Pemmaraju (Technical Lead), Michael Maximilien (Distinguished Engineer) at IBM, Sunny Dosanjh, CEO Duo Space, and Dimitrios Sikeridis, VMware (May 18, 2023). San Francisco, CA.

International Conference Poster Presentations

[T43] Pendyala, V.S., iSIGCSE's ACM COMPUTE 2025 at IIT Ropar, India. Dec 7 – 9, 2025. A Technology-Enhanced, Sustainability-Aligned Model Utilizing Flipped Classes for AI/ML Instruction in the Age of Generative AI.

Workshops

[T44] Integrating LLMs into the Writing Curriculum: A Faculty Development Workshop. (one session weekly from 17 October 2025 to 7 November 2025) San Jose State University, Writing Across Curriculum. <https://www.sjsu.edu/wac/workshops/index.php>

National Conference Keynotes, Talks, and Panel Discussions

[T45] [Systems Love to Hate: Educating Law Students and Practitioners on Bias in AI](#) (2024, 22 July). American Association of Law Libraries Annual Conference. Hyatt Regency, Chicago, Illinois, Keynote in a panel along with Alexis Fetzer Sharp, State Law Librarian, Supreme Court of Virginia, Vicenç Feliú – Associate Dean for Library Services & Professor of Law, Shepard Broad College of Law, Nova Southeastern University, Elizabeth Salsedo-Surovov, Director of Knowledge Management and Information Resources, Robinson+Cole <https://aall2024.eventscribe.net/agenda.asp?pfp=BrowsebyDay>

[T46] Improving Rapid Public Transit Utilization using Neo4j and Machine Learning (2023, 25 October). NODES 2023 Conference session. Jointly and virtually presented with MSDA student, Sowmya Kuruba. https://www.youtube.com/watch?v=8ZmOzmQ_xq8&list=PLLSxQYv4DdJk9HSsby8Whox-JhJ0w7Ldk&index=23

[T47] Peralta Equity Conference, “Anti-Oppressive Pedagogy Initiative: A Case Study,” presented along with Dr. Michele A. L. Villagran, (2023, 26 April). <https://sites.google.com/view/peraltaequityconference/2023-conference/2023-program/2023-apr-26-sessions>; <https://www.youtube.com/watch?v=7QCWtKbN-T4>
Slides: <https://works.bepress.com/vishnu-pendyala/42/>

Panels and Invited Talks at Symposia, Seminars, and Workshops

[T48] AI or Die (11 November 2025). Virtual presentation to University of Greater Manchester, UK, November to Remember Webinar series. https://www.linkedin.com/posts/celestine-iwendi-phd-smieeee-fhea-fimc-cmc-bbbbba4b_artificialintelligence-digitalidentity-airesearch-activity-7394092487168053248-KgLn Recording on Center of Intelligence of Things YouTube Channel: <https://www.youtube.com/watch?v=5cs1ee2nRFA>

[T49] Navigating the Complex Contours of Emerging AI (2025, 27 August). Virtual presentation at IDEA Institute on AI, organized by The Association for Information Science and Technology (ASIS&T). <https://www.asist.org/meetings-events/idea-institute/idea25-schedule/>

[T50] The Strategic Impact of Emerging Artificial Intelligence in the Ethical Realm of the Enterprise Landscape (2025, 20 August). 2025 IEEE Computer Society Enterprise Generative AI Summit. In person. Signia by Hilton, San Jose, CA, USA. <https://ieeegenai.conferences.computer.org/2025/>

[T51] Ethical and Legal Considerations in AI-Driven Trade, (2024, 19 November). [Centre of Intelligence of Things-University of Bolton](#) (CloTh), and [World Trade Organization](#) (WTO) Modular Programme on AI and Supply Chain. Presented virtually. https://www.linkedin.com/posts/computing-university-of-bolton_ai-ethics-supplychain-activity-7264703663707746305-fkSu

[T52] Navigating the AI pitfalls, (2024, 9 November). Computer History Museum, Mountain View, CA (in-person). US-Taiwan High Tech Forum 2024 attended by over 360 delegates. <https://www.worldjournal.com/wj/amp/story/121368/8350138>

[T53] Explainability of AI/ML models for a socially sustainable AI growth. (2024, 4 November). Virtual. University of Bolton, UK, November to Remember Webinar series. https://www.linkedin.com/posts/computing-university-of-bolton_november-to-remember-a-series-of-transformative-activity-7258702181229338625-cDEp/ Video recording on the University of Bolton Computing's YouTube channel: <https://www.youtube.com/watch?v=-qY7YQv94K0> and on the IEEE Bolton Student Branch YouTube channel: <https://www.youtube.com/watch?v=R8HR9Y3vG-8> Slides: <https://works.bepress.com/vishnu-pendyala/60/>

[T54] The Ethical Imperative of the Artificial Intelligence Explosion (2024, 06 September). Google Developer Groups, San Jose DevFest 2024, Google TM2, 255 West Tasman Drive, San Jose, CA, <https://gdg.community.dev/events/details/google-gdg-san-jose-presents-san-jose-devfest-2024/>; https://www.linkedin.com/posts/gdg-san-jose_gdgsanjose-gdg-gde-activity-7235437756045291520-uF9T

[T55] Can Machines Be Good? Navigating the Ethics of Generative AI (2024, 31 May). 26th New Frontiers In Computing (NFIC '24), in-person at Stanford University. Other presenters include IEEE and ACM Fellow, Prof. Ricardo Baeza-Yates, UCSC Prof. Yang Liu, CEOs / Founders from the industry https://youtu.be/AxP_n1jpxnc?t=1906 , <https://ieeetv.ieee.org/video/navigating-the-ethics-of-generative-ai>

[T56] Equity, Diversity, Inclusion, and Social Justice in AI: The role of wokeness and anti-wokeness in AI models (2024, 31 May). Virtual presentation at IDEA Institute on AI,

organized by The Association for Information Science and Technology (ASIS&T).
<https://asist.scoocs.co/event/1154>

[T57] Will AI Reviewers Replace Human Reviewers in Peer Review Processes? (2023, 8 November). Global webinar, hosted by [eContent Pro](#) and [IGI Global](#). Panelists include professors from UK, Egypt, Hungary, and Bangladesh. <https://www.igi-global.com/newsroom/archive/will-reviewers-replace-human-reviewers/5998/>; <https://youtu.be/BqSFuKyGb28?t=545>
<https://events.teams.microsoft.com/event/017cdada-8339-4b45-b34b-0082bd0790d9@068bde83-3dda-41fc-9565-4b16e4ebb35b>

[T58] Machine Learning Applications and Sustainable Development (2023, 6 November). University of Bolton, UK, November to Remember Webinar series.
<https://www.youtube.com/watch?v=GyYWvyLjfvq&list=PLLSxQYv4DdJk9HSsby8Whox-JhJ0w7Ldk>

[T59] Indo Universal Collaboration for Engineering Education (IUCEE) Global Webinar (virtual), “Effectively Teaching AI/ML to Diverse Student Populations” (2023, 21 July), attended by 60+ professors mostly from India and Europe. <https://iucee.org/week-of-july-17-2023/> Recording: <https://www.youtube.com/watch?v=eDU-naj3yWA> Slides: <https://works.bepress.com/vishnu-pendyala/45/>

[T60] Centre for Applied Computer Science, The University of Bolton, “November to Remember” series of invited guest lectures: “Machine Learning for Societal Improvement, Modernization, and Progress” (2022, 14 November)
<https://www.youtube.com/watch?v=RdoguqaM8PA>

[T61] One-and-half-hour Invited Talk (2022, 7 March). Applied Machine Learning for Social Advancement, International Seminar on Artificial Intelligence and Applications-2022, organized by Interdisciplinary Centre for Artificial Intelligence and Department of Computer Engineering, Aligarh Muslim University, India.

[T62] Delivered seminars on Software Engineering and DevOps tools and techniques to delegates from S. Korea, every summer for five years (2014 – 2018) through SJSU.

[T63] Designed and taught a one-week course approved by the Ministry of Human Resource Development, Government of India in November 2017 on “Big Data Analytics for Humanitarian Causes” at Hyderabad, India to research scholars, most of them, professors (various ranks) of Computer Science including those from New Delhi in the north and Chennai in the south. <http://www.gian.iitkgp.ac.in/ccourses/completedcourses>

[T64] Technical Talk to Electronics Corporation of India Limited (audience comprised of five nominated employees from each Business Unit) on 1/4/16: “Veracity on the World Wide Web”.

[T65] The Truth behind the Tweets, organized by the Cupertino city at Cupertino Community Hall, February 16, 2019. <https://cupertinotoday.com/2019/02/08/cisco-systems-technical-leader/>

[T66] Jenkins for Building Cisco's Wireless Image (2018, September 19) at DevOps World 2018
https://devopsworldjenkinsworld2018.sched.com/speaker/vishnu_pendyala.1y8nqn5k

[T67] Presentations at IBM, Rational, and Perforce user conferences (2002 – 2009).

[T68] Presentations in multiple internal conferences within Cisco on DevSecOps related topics.

Invited Panels and Talks to Professional Society Chapters

[T69] The Sketches of Infinite Data and Algorithms for Real-Time Data Insights (2025, 19 August). Invited talk hosted by several IEEE Computer Society Chapters (presented virtually). <https://events.vtools.ieee.org/m/482936> ; <https://ieeetv.ieee.org/video/the-sketches-of-infinite-data-and-algorithms-for-real-time-data-insights> ; Slides: <https://scholarworks.sjsu.edu/oer/15/>

[T70] Unveiling the Transformative Power of Unsupervised machine learning through Clustering (2025, 31 March). Invited talk hosted by IEEE Kitchener-Waterloo Section, Computer Society Chapter, Conestoga College Inst of Tech & Advanced Learning, and others (presented virtually). <https://ieeetv.ieee.org/video/unveiling-the-transformative-power-of-unsupervised-machine-learning-through-clustering> ; Slides: <https://scholarworks.sjsu.edu/oer/6/>

[T71] Quantitative analysis of Machine Learning model performance and the need to consider explainability (2024, 30 December). An IEEE Computer Society, Santa Clara Valley Chapter webinar (virtually presented). Video: <https://ieeetv.ieee.org/channels/computer-society/quantitative-analysis-of-machine-learning-model-performance-and-the-need-to-consider-explainability> Slides: <https://works.bepress.com/vishnu-pendyala/59/>

[T72] Panel discussion on Revolutionizing Healthcare using Generative AI with [Chinmay Nerurkar](#), [Microsoft](#), [Lakshmanan Sethu](#), [Google](#), [Ruchi Agarwal](#), [Netflix](#) (2024, 20 March). IEEE Computer Society, Santa Clara Valley Chapter, <https://podcasts.apple.com/us/podcast/ieee-computer-society-santa-clara-valley-chapter/id1708127425?i=1000650312682> <https://ieeetv.ieee.org/video/revolutionizing-healthcare-using-generative-ai>

[T73] Representation Learning in Lower Dimensions and Spectral Methods in Machine Learning (2024, 16 January) an IEEE Computer Society, Santa Clara Valley Chapter webinar. Video: <https://ieeetv.ieee.org/video/representation-learning-in-lower-dimensions-and-spectral-methods-in-machine-learning> and <https://youtube.com/live/TvW5yp5QuX8> Slides: <https://works.bepress.com/vishnu-pendyala/58/>

[T74] Panel Discussion on Navigating privacy and [hallucination](#) concerns around [Generative AI](#) with [Chinmay Nerurkar](#), [Microsoft](#), [Lakshmanan Sethu](#), [Google](#), [Ruchi Agarwal](#), [Netflix](#) (2023, 21 November). IEEE Computer Society, Santa Clara Valley Chapter, <https://podcasts.apple.com/us/podcast/navigating-privacy-hallucination-concerns-around-generative/id1708127425?i=1000635633197> <https://ieeetv.ieee.org/video/navigating-privacy-and-hallucination-concerns-around-generative-ai>

[T75] IEEE Day Panel Discussion on Ethical AI: Shaping the Future Responsibly (2023, 3 October). With Dr. Katharina Koerner, Tech Diplomacy Network, USA, UK, Chinmay Nerurkar, Principal Engineer, Microsoft, and moderated by Meenakshi Jindal, Netflix, Los Gatos, USA. <https://ieeetv.ieee.org/video/ieee-day-panel-discussion-on-ethical-ai-shaping-the-future-responsibly>

[T76] Slowly changing dimensions and fast-changing facts – the story of the traditional data warehouse (2023, 15 August) an IEEE Computer Society, Santa Clara Valley Chapter webinar. <https://ieeetv.ieee.org/video/slowly-changing-dimensions-and-fast-changing-facts-the-story-of-the-traditional-data-warehouse> Slides: <https://works.bepress.com/vishnu-pendyala/41/>

[T77] International Conference on Applied Data Science (ICADS '23), organized by IEEE Computer Society, Santa Clara Valley Chapter, Panel Discussion, “Should AI development really take a pause?” with Prof. Patrikakis Charalampos, University of West Attica, Greece, Manish Mradul, Director, Palo Alto Networks, and others (2023, 25 July). Virtual / Online. <https://ieeetv.ieee.org/video/icads-23-panel-discussion-should-ai-development-really-take-a-pause>

[T78] Exploring the Math in Support Vector Machines (2022, 04 October) IEEE Day Technical Talk hosted by IEEE Computer Society, Silicon Valley chapter <https://ieeetv.ieee.org/video/exploring-the-math-in-support-vector-machines> Slides: <https://works.bepress.com/vishnu-pendyala/38/>

[T79] Machine Learning for Misinformation Containment: A Candid Assessment of the State of the Art (2022, 13 August) invited talk delivered as part of the 23rd New Frontiers in Computing conference organized by the Santa Clara Valley chapters of IEEE Computer Society and North America Taiwanese Engineering & Science Association (NATEA)

<https://ieeetv.ieee.org/video/machine-learning-for-misinformation-containment-a-candid-assessment-of-the-state-of-the-art>

Slides: <https://works.bepress.com/vishnu-pendyala/46/>

[T80] ICADS '22 Talk: Deep Learning for Melodic Frameworks (2022, 12 July) in the half-day seminar organized by the IEEE Computer Society, Silicon Valley chapter

<https://ieeetv.ieee.org/video/icads-22-talk-deep-learning-for-melodic-frameworks> Slides: <https://works.bepress.com/vishnu-pendyala/40/>

[T81] Machine Learning, the mortar of modernization (2022, 14 June) delivered at the Open-house of IEEE Computer Society, Silicon Valley chapter

<https://ieeetv.ieee.org/video/machine-learning-the-mortar-of-modernization> Slides: <https://works.bepress.com/vishnu-pendyala/37/>

[T82] Meta-algorithms in Machine Learning (2022, 31 May) an IEEE Computer Society, Silicon Valley chapter webinar <https://ieeetv.ieee.org/video/meta-algorithms-in-machine-learning>

<https://events.vtools.ieee.org/m/315184> Slides: <https://works.bepress.com/vishnu-pendyala/39/>

[T83] Two-hour Ask Me Anything (AMA) session on Artificial Emotional Intelligence with Prof. Björn W. Schuller. (2022, 22 March), IEEE Computer Society, Santa Clara Valley Chapter, <https://ieeetv.ieee.org/video/ama-with-bjorn-schuller-artificial-intelligence>

[T84] Three-hour Ask Me Anything (AMA) session on Advances in Machine Learning with Prof. Pedro Domingos (2021, 9 November), IEEE Computer Society, Santa Clara Valley Chapter, <https://ieeetv.ieee.org/video/ama-with-pedro-domingos>

[T85] Guest Lecture (2021, July) to ACM Chapter at UTEC - Universidad de Ingeniería y Tecnología, Lima, Peru <https://www.facebook.com/acm.utec.pe/posts/527418155350207>

[T86] Guest Lecture (2021, May) to ACM Chapter at University of Petroleum and Energy Studies, Dehradun, Uttarakhand, India <http://prodigy.upesacm.org/> and https://acmindia-studentchapters.in/post.php?post_id=597

[T87] Machine Learning for Veracity of Big Data, ACM Webinar organized by VR Siddhartha Engineering College (2020, July 3rd)

https://www.facebook.com/permalink.php?story_fbid=156823692600667&id=110206497262387

[T88] Machine Learning for Veracity of Big Data. Guest Lecture jointly sponsored by the Santa Clara Valley Chapters of IEEE Computational Intelligence Society, Computer Society, Solid State Circuits Society (SSCS), and Circuits and Systems Society at SJSU's 2nd annual Computer, Software, and Electrical Engineering Technology Showcase

<https://events.vtools.ieee.org/m/199632>

[T89] Invited Talk: Pendyala, V. (2014, December). Machine Augmented Healthcare for All. In International Conference on Computing & Communication Technologies. Co-sponsored by IEEE Hyderabad Chapter and Computer Society of India, Hyderabad Chapter. [Video Recording: <https://youtu.be/WVGPPsdH-ao>]

[T90] Invited Talk: Pendyala, V. (2017, December). "Mining for Medical Expertise" to the Hyderabad Section of IEEE. <https://events.vtools.ieee.org/m/155869>

[T91] Invited Talk: Pendyala, V. (2017, January). "Evolving a Truthful World Wide Web" to the Hyderabad Chapter of Computer Society of India. <https://www.meetup.com/CSI-Tech-Talk-Meetup/events/236605086/>

[T92] Technical Talk to IEEE Hyderabad Section on 1/8/16: "The Pandemic of Falsity on the World Wide Web and Plausible Cures from Machine Learning and Knowledge Representation Perspectives" <http://www.ieeehyd.org> -> under Activities/Events.

[T93] Brainstorming Session: Pendyala, V. (2015, October). Detecting Lies on the Web. Data Science Camp. ACM. SF Bay Area Chapter. http://www.sfbayacm.org/sites/default/files/acmcamp2015_sessionmatrix_0.pdf

Invited Talks at Academic Forums

[T94] Conversational AI for a Healthier, Happier Aging Journey (2025, 9 May). Invited (virtual) talk at the workshop on Empowering The Diverse Aging Population: Elevating Digital Literacy Using Conversational Ai Assistants. University of Hawaii, Manoa. <https://www.linkedin.com/feed/update/urn:li:activity:7324449275206062081/>

[T95] Crafting Research that Resonates. Presentation to the students of SJSU's Gateway PhD Program with Manchester Metropolitan University at their annual research workshop (2025, 6 August). In Person. Interdisciplinary Science Building, SJSU. Slides: <https://scholarworks.sjsu.edu/oer/14/>

[T96] Creating a Multimodal, Comprehensive Misinformation Detection and Containment Ecosystem (2024, 02 October). College of Information, Data, and Society research presentation. Virtual. <https://sjsu.hosted.panopto.com/Panopto/Pages/Viewer.aspx?id=842fc9fd-7582-4485-ae0f-b1fd015539d1>

[T97] Information session on MS in Data Analytics (2024, 26 September). International Recruitment Program, SJSU, Virtual. <https://events.sjsu.edu/event/ms-in-data-analytics->

[information-session-for-spring-2025;](#)

https://twitter.com/sjsu_pro/status/1838700271699959866

<https://www.facebook.com/sjsu.professional/posts/pfbid0ozDzriZs5QyWnm5NTeAgeut3PdArHS3wiMRQpLgg8btdAGg9rPuxTc2495MN7wJXl> ;

https://www.linkedin.com/posts/sjsuprofessional_are-you-interested-in-applying-to-the-ms-activity-7244465974219833347-XmID

[T98] From Numbers to Insights: A Journey through MS in Data Analytics (2024, 16 February). Virtual technical presentation on the MSDA coursework to prospective students of the MSDA program, organized by Imperial Platforms Pvt. Ltd.

[T99] Navigating the Ethical Horizon: A Journey into Responsible AI (2024, 12 January). In-person talk at KREA University, Sri City, India. https://www.linkedin.com/posts/krea-university_kreauniversity-sias-kreatalks-activity-7148894994257395712-7ycv , <https://krea.edu.in/event/responsible-ai/>

[T100] Exploring the Frontiers of AI/ML: Practical Trends and Real-World Implications (2024, 03 January). In-person at Kalasalingam University (Ranked 29th in the Indian Government's list of universities), Krishnankoil, Tamil Nadu, India.

[T101] A Lens on Equity, Diversity, Inclusion, and Social Justice Aspects of Artificial Intelligence (2023, 26 September). College of Professional and Global Education Webinar series. <https://www.sjsu.edu/cies/events/> ; <https://www.youtube.com/watch?v=YKKOEc3nwAs> <https://sjsu.hosted.panopto.com/Panopto/Pages/Viewer.aspx?tid=738bd51f-1b78-45f4-b71d-b0890155d6e0> Slides: <https://works.bepress.com/vishnu-pendyala/47/>

[T102] Machine Learning for Lie Detection (2023, 11 August) Webinar for Sharad Institute Of Technology College Of Engineering, Ichalkaranji, Maharashtra, India. Attended by over 100 students and faculty.

[T103] Osmania University Global Alumni Meet 2023, Invited Talk, "Ethical Aspects of AI/ML" (2023, 04 January)

[T104] RSCA in Five, Faculty Short Talks on Community Engaged Research, Scholarship, and Creative activity, "Discovering similarities and dissimilarities using deep learning" https://www.linkedin.com/posts/anna-dizack_sjsu-activity-6986835201066766336-J5bc (2022, 14th October)

[T105] Experience with the SJSU University Grants Academy: A Faculty Panel (2022, 28 September). Organized by SJSU College of Professional and Global Education <https://sjsu.zoom.us/rec/share/-Jf2E-SFR0A6A0dPvQRFd7MdwJCL-cFsZMgGVj5h01uudHQMZaW3G6WNZ97SNv6S.-k8yuaXPy3RM4ri2> (Passcode: ruUa9i7&). <https://www.sjsu.edu/cies/academic/faculty/rsca-events/>

[T106] One-hour Session (2022, 12 March). Machine Learning through Analogies, SJSU “Classes without Quizzes.”

<https://twitter.com/SJSUEngineering/status/1499867282134155266>

[T107] One-and-half-hour Panel Discussion (2022, 25 February). Work-life balance in Grad School, SJSU Affinity Mentoring for Academic Success (AMAS) Program.

<https://www.youtube.com/watch?v=D7oaYK7ZUAs>

[T108] Invited Talk: Pendyala, V. (2016, December). "Tools and Techniques for Trusting the Web" to the Student Branch of Computer Society of India at CVR College of Engineering, Hyderabad. Video Recording: <https://www.youtube.com/watch?v=JcpQMBZWs7o>

[T109] Invited Talk at San Jose State University through the MESA Engineering Program, on 4/12/16: "The Big Data phenomenon and its 4th V”.

<https://www.eventbrite.com/e/tech-talk-the-big-data-phenomenon-and-its-4th-v-tickets-23200305739#>

<https://www.facebook.com/sjsu.cmpe.se/posts/490728877783265>

<https://www.facebook.com/SJSUEngineering/posts/10153624082911523>

[T110] Guest Lecture at IIIT, Hyderabad on 1/9/16: "A Truthful World Wide Web for effective E-Governance”.

[T111] Guest Lecture: Pendyala, V. (2015, January). Opportunities and Challenges in e-Governance: mHealth Case Study. Indian Institute of Information Technology, IIIT, Hyderabad. [Slides: <http://www.slideshare.net/bhumik93/iiit>]

[T112] The Truth behind the Tweets, SJSU Alumni Association’s “Classes without Quizzes”

ATTENTION IN THE PRESS

Media Coverage

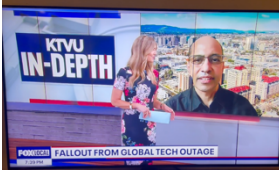
[M1] How AI Models Are Impacting the Environment and Society (2025, 08 January). In person interview at 10:30 am on Tuesday, October 22, 2024, Santa Clara, CA, USA, premiered on Bay Area Innovators, EpochTV news channels, received plenty of attention, including from celebrities.

<https://www.theepochtimes.com/epochtv/premiering-900-pm-et-how-ai-models-are-impacting-the-environment-and-society-5786714>,

<https://www.youtube.com/watch?v=Ov7Jq0BwXcM>,

<https://www.facebook.com/TakeBackThisCountry/posts/pfbid02esbf26gnpug9ptFNE545R2LkiaAyTmEUTruyyv7pATffeHcBc8yXJ1kaGHgdpzBn/>, and many more.

[M2] Fox News 7:30 pm Live KTVU In-Depth, July 19, 2024, “Fallout from Global Tech Outage”



- [M3] ABC7 Television News, April 8, 2024, “Can AI help end homelessness?”
<https://abc7news.com/14635637/>
- [M4] 94.1 KPFA Radio, April 10, 2024, Upfront, “San Jose’s AI Pilot Program to Track Down Homeless Encampments” at 7 am, <https://kpfa.org/episode/upfront-april-10-2024/> ; <https://podcasts.apple.com/us/podcast/new-cpi-report-out-plus-san-joses-ai-pilot-program/id563931407?i=1000652031425>

JOURNALS AND MAGAZINES

Editorial Experience

- [E1] Guest Editor, Special Issue, "Algorithms and Innovations for Real-Time Processing in Streaming Systems and Applications," Algorithms (EISSN 1999-4893),
<https://www.mdpi.com/si/260352> Impact Factor: 2.1, Citescore: 4.5.
- [E2] Topic Editor, “Theories, Techniques, and Real-World Applications for Advancing Explainable AI,” <https://www.mdpi.com/topics/GKV4OA9682> Participating Journals: AI, Algorithms, Sensors, Electronics, Information, Future Internet.
- [E3] Guest Editor, Special Issue, "Applied Data Science for Social Good," Big Data and Cognitive Computing (ISSN 2504-2289).
Scopus indexed, Citescore: 6.1
https://www.mdpi.com/journal/BDCC/special_issues/91ZC4LI295 and 2nd issue:
https://www.mdpi.com/journal/BDCC/special_issues/CK7PG0BK42
- [E4] Review Editor, “Machine Learning & Artificial Intelligence” section of Frontiers in AI, Scopus indexed, H-INDEX: 54, Citescore: 2.2, SNIP: 1.3
<https://www.frontiersin.org/journals/artificial-intelligence/editors>
- [E5] Editorial board, International Journal of Informatics and Communication Technology, <https://ijict.iaescore.com/index.php/IJICT/about/editorialTeam>
- [E6] Founding Editor of The Cognitive Nexus, the flagship publication of IEEE Computer Society, Santa Clara Valley chapter <https://r6.ieee.org/scv-cs/magazines/> ISSN: 3068-2525 (Online)

- [E7] Founding Editor of Feedforward, the flagship publication of IEEE Computer Society, Santa Clara Valley chapter <https://r6.ieee.org/scv-cs/magazines/> ISSN: 3068-2525 (Online)
- [E8] Founding Editor of Visleshana, the flagship publication of Computer Society of India, Special Interest Group on Big Data Analytics, CSI SIGBDA. <https://scholar.google.com/scholar?&q=visleshana> 2017 - 2018.
- [E9] Editor of JeeFier, the newsletter of Division G, District 4 of Toastmasters International, for which I won the Silver Scribe Award in 2007 <http://d4tm.org/district-awards/public-relations-award-recipient>
- [E10] Editor of Third Wave, the newsletter of Computer Society of India, Hyderabad Chapter. Won the Best Chapter Newsletter Award at the Regional level.

Journal Paper Review Activity

- [E11] Reviewer for IEEE Transactions on AI (Q1, JIF: 7.7), IEEE Transactions on Systems, Man and Cybernetics: Systems (Q1, JIF: 8.6), IEEE Internet of Things Journal (Q1, JIF: 8.9), IEEE Transactions on Big Data (Q1, JIF: 5.7), IEEE Access (Q1, JIF: 3.6), Neurocomputing (Q1, JIF: 6.5), Technology in Society (Q1, J.I.F. 12.5, CiteScore 21.9), ACM Transactions on Intelligent Systems and Technology (Q1, JIF: 7.2), Computers and Education: Artificial Intelligence (Q1, JIF: 5.2, CiteScore: 28.7), Springer Artificial Intelligence Review (Q1, J.I.F.: 11.7), Environmental Modelling and Software (Q1, JIF: 4.6), Nature Communications Medicine (Q1, JIF: 6.3), Information Sciences (Q1, JIF: 6.8), AI and Ethics (Q1, JIF: 6.1), Expert Systems with Applications (Q1, JIF: 7.5), Scientific Reports (Q1, JIF: 3.8), Journal of Big Data (Q1, 5-yr JIF: 12.4), Future Generation Computer Systems (Q1, JIF: 6.2) Data Mining and Knowledge Discovery (Q1, 5-yr JIF: 5.3), Human Computer Interaction (Q1, JIF: 3.4), Social Network Analysis and Mining (Q1, JIF: 2.3), International Journal of Data Science and Analytics (Q2, JIF: 3.4) Knowledge and Information Systems, Neural Processing Letters, International Journal of Data Science and Analytics (Q2, JIF: 3.4), Connection Science (Q1/Q2, JIF: 3.4), Software Quality Journal (Q2, JIF: 2.3), Frontiers in AI, Discover Computing, Discover Analytics, Discover AI, Elsevier Information Processing and Management (Q1, JIF: 7.4), Next Bioengineering, Array, Automatika, Digital Applications in Archaeology and Cultural Heritage, Behaviour & Information Technology, Telematics and Informatics R, Sustainability, Electronics, Applied Sciences, Sensors, Machine Learning with Applications, Applied Artificial Intelligence, Intelligent Systems with Applications (Q1), PeerJ, IEEE Computer, scores of other publications and conferences since 2000. <https://publications.computer.org/computer-magazine/2018/01/19/2017-reviewer-thanks/>

[E12] Advisory Committee member for “TIU Transactions On Intelligent Computing,” journal <http://www.tiutic.org/index.php>

[E13] Founding member of the Editorial board and columnist of “CSIH Communique”, Newsletter of Computer Society of India, Hyderabad Chapter. <http://www.csih-communicue.org/> 2017

PROFESSIONAL SERVICE

University, Committee, and Review Panel Roles

[US1] SJSU Senator (January 2023 – May 2026)

[US2] Served on a proposal review panel for National Science Foundation (NSF) in 2023, and Natural Sciences and Engineering Research Council of Canada (NSERC) in 2025 / 2026.

[US3] One of the 6-member committee to finalize the name of the new College of Information, Data, and Society.

[US4] Serving as a Career Champion at SJSU (May 2025 – date)

[US5] Served on the Internationalization Working Group – 2025

[US6] Member, SJSU President’s AI Advisory Committee (Research and Industry Subcommittee)

[US7] 2025-2026 Future of Humanity & Society Faculty Ambassador, Office of the President, SJSU

[US8] Faculty advisor, Applied Engineering and National Student Data Corps (NSDC), Recognized Student Organizations 2025 - date

[US9] Committee Member for University Curriculum & Research Fall 2022, AY 2025-2026 and for a short duration, Graduate Studies & Research, Spring 2023, Professional Standards 2023 – 2024, and for Organization and Government 2024 - 2025.

[US10] Member, Search committee for the Vice Provost, Academic Innovation & Institutional Effectiveness, Spring 2023.

[US11] Mentor, Undergraduate Research Opportunity Program (UROP), Fall 2023 – Spring 2025

[US12] SJSU Scholarship Review Committee – AY 2025–2026

[US13] Thesis Committee Chair for Applied Data Intelligence Graduate students, Kartik Mukkavilli (AY 2024-25), Minett Tran (Spring '25 – Fall '25), Mayank Kapadia, Bence Danko, Janani Kripa Manoharan (Fall '25 – Spring '26)

[US14] Thesis Committee Member for Nivedha Balakrishnan (AY 2022-23), Andrew Dunton (Spring '25 – Fall '25), Yashasvi Kanchugantla (Spring '25 – Fall '25)

[US15] SJSU Outstanding Thesis Scholarship Committee, 2022 – 2023

[US16] Department Curriculum Committee, Fall '21 – Present

[US17] College Academic Equity, Diversity, and Inclusion Committee, Fall '21 – Spring '24.

[US18] College Research, Scholarship, and Creative Activity (RSCA) Committee, Fall '24 – Present.

[US19] Department representative, California Faculty Association, January 2022 – Present.

[US20] Mentor, Affinity Mentoring for Academic Success (AMAS) Program, Fall '21 – Spring '22

PROFESSIONAL & COMMUNITY

Affiliations

Senior Member, IEEE and Senior Life Member, ACM and Computer Society of India

IEEE Computer Society, Region 6, Area 4 Coordinator (2025), Election Committee Member (2024)

Chair (2022 - 2025) Vice Chair (2019), Secretary (2021) IEEE Computer Society – Santa Clara Valley Chapter

The Chapter won the best chapter award among all the chapters in the world for 2024.

Chair (2025) IEEE Computational Intelligence Society – Santa Clara Valley Chapter
President, Board of Directors, Kingston Village Homeowners Association, 2015-2024

Global Co-Lead, ICon (Cisco Indian ERO), 2017-2020

Executive Council Member – SIGBDA, Computer Society of India, 2016-2020

Board of Directors, Silicon Valley Engineering Council, 2018-2019

Area Governor, Toastmasters International, 2006-2007

OTHER SERVICE

Community Outreach

[S1] Member of the Working Group for P2863 – the IEEE Standard for the Organizational Governance of Artificial Intelligence.

- [S2] Ph.D. Dissertation evaluation, Bennett University (Ranked 2nd in India by Times Engineering Survey), Kalasalingam Academy of Research and Education (“30th Rank. Among Indian Universities”), Koneru Lakshmaiah University (“ranked among the Top 30 institutions in India by NIRF”), and others.
- [S3] Invited to join the California State East Bay Big Data Certificate Program Advisory Council, September ‘21 [Invitation declined]
- [S4] Qualified scientist for a high school student’s Alameda County Science and Engineering Fair (ACSEF) project titled “Fully Autonomous Drone Control and Seed planter system (FADS) system using Deep Learning.”
- [S5] Mentor, Palo Alto Unified School District’s Advanced Authentic Research (AAR) program.
- [S6] Judge / Reviewer for Alameda, Santa Clara County, Silicon Valley, and California state Science and Engineering fairs, Grace Hopper Celebration of Women in Computing, Cisco Innovation Challenge, Cisco’s Grant program for universities and others for over two decades.

SERVICE ON CONFERENCES

Conference Committee Chair

- [CS1] General Co-Chair and TPC Co-chair, Global Conference on Next Generation Artificial Intelligence – Applications, Impact, and Innovations. Gen-AI 2026, IEEE, Greater Manchester, United Kingdom <https://genai-conf.com/#committees>
- [CS2] Publicity Co-chair, International Conference on Connected Intelligence for Industrial Applications (CI²A), Akal University, Punjab, India. IEEE. 29th - 31st January, 2026. <https://ci2a.info/conference-committee.php>
- [CS3] TPC Co-chair, 9th International Conference on Advanced Electronic Technology, Computers and Software Engineering (AETCSE 2026), IEEE, Xi'an, China, March 13-15, 2026. <https://aetcse.org/mvefzvav>
- [CS4] TPC Co-chair, International Conference on recent trends in Microelectronics, Automation, Computing and Communications Systems (ICMACC 2024), Technically Sponsored by IEEE, Hyderabad Section. 18th - 21st December 2024. India. <https://icmacc.org/tpC/>

[CS5] General Co-chair, 14th International Conference, IACC 2024, Bali, Indonesia, December 13–14, 2024. Springer. <https://link.springer.com/book/10.1007/978-3-031-84602-1>

[CS6] General Chair, 4th International Conference on Neural Networks, Information and Communication Engineering (NNICE '24), January. 19th-21st, 2024, Guangzhou, China. IEEE. <https://ieeexplore.ieee.org/xpl/conhome/10498130/proceeding>

[CS7] Guest of Honor, International Conference Advances In Computational Intelligence And Informatics (ICACII 2023). Springer. 22-23 December 2023, Hyderabad, India.

[CS8] Conference Co-Chair, *Third International Conference on Computer Technology, Information Engineering, and Electron Materials (CTIEEM 2023)*, Zhengzhou, China, 17-19 November 2023. <https://www.spiedigitallibrary.org/conference-proceedings-of-spie/12987/1298701/Front-Matter-Volume-12987/10.1117/12.3025034.full>

[CS9] TPC Co-chair for International Conference on Computing & Communication Technologies, Hyderabad, December, 2014, Co-sponsored by Hyderabad Chapters of IEEE and Computer Society of India.

Conference Advisory Committee

[CS1] International Conference on NextGen Data Science and Analytics (ICNDSA-2025, and 2026). Delhi NCR, India. Technically Sponsored by IEEE, UP Section, 12th April 2025, and 10 - 11 April, 2026. https://ieeencr.christuniversity.in/Committee/International_advisory_committee.html

[CS2] International Conference on Computational Innovations and Emerging Trends (ICCIET - 2024). Springer. Hyderabad, India.

[CS3] Advisory Committee member for IEEE Hyderabad section sponsored ICITE 2018, <http://icite2018.com/>

[CS4] Advisory Committee member for Springer ICACECS 2021 - 2023 <https://www.icacecs.org/committees.php>

Conference Technical Program Committee

[CS5] International Conference on Artificial Intelligence, Communication Technologies & Smart Cities (ICACS 2026), Springer. CHARUSAT, Gujarat, India.

[CS6] TPC member / Reviewer, IEEE ANTS 2019 onwards, ACM COMPUTE, CSNT 2022, CSI 22, IEEE BigDataService '20, onwards and 50+ other conferences from 2000 - 2025.

Conference Publicity Committee

[CS7] Artificial Intelligence Symposium June 26-27, 2025. University of South Dakota. Springer. <https://www.usd.edu/Academics/Colleges-and-Schools/college-of-arts-sciences/computer-science/Artificial-Intelligence-Symposium>

INDUSTRY EXPERIENCE

Industry - Areas of Expertise

Program & Project Management | Software Development | Device Drivers | Firmware | Compiler Design | Database Design | Release Management | Platform Engineering | Debugging | CI/CD | Big Data | Team Leadership | Performance Tuning | Information Security | System Automation | Diversity & Inclusion | DevOps | Digital Transformation | Product Quality Assurance | Technical Support | Artificial Intelligence | Machine Learning | Agile/Scrum Methodologies | Continuous Productivity & Efficiency improvement | Training & Mentoring | Tool Development

Professional Development & Training in the Industry

Introduction to Data Analytics with Python, Boot Camp Cisco's Vulnerability Management, Cisco Secure Development Lifecycle, Continuous Integration & Delivery (CI/CD), Intro to Hadoop and MapReduce, Manager Hiring & Interview Training, CSDL Security Readiness Criteria, Data Protection & Privacy General Awareness, Docker Introduction, Protect Data Every Day, Security Officer Training, Understanding Cryptography, Test Driven Development (TDD) for Java

LANGUAGES

English: native - reading, speaking, and writing

Telugu: native - reading, speaking, and writing

Hindi: fluent - reading, speaking, and writing

Sanskrit, Tamil, Kannada: basic proficiency - reading, speaking, and writing

Urdu: conversational - speaking

A FEW STUDENTS AND PROJECTS

Students and Projects In Progress

[SP1] Thesis Supervision (discrete projects)

Mayank Kapadia

August 2025 - date

Janani Kripa Manoharan

August 2025 - date

Minett Tran

January 2025 - date

[SP2] Research in Mechanistic Interpretability (discrete projects)

Vaibhav Achar (Research Assistant)

January 2025 – date

Keyaba Gohil (Research Assistant)

September 2025 – date

Aishwarya Indi (Research Assistant)

September 2025 – date

Jaykumar Darji (Mentee)

June 2025 – date

[SP3] Overcoming context window in natural language (discrete projects)

Gayatri Patil

June 2025 - date

Aiswarya Raghavadesikan

August 2025 – date

[SP4] Agentic Workflow for Wireless Channel State Information Processing

Milind Patil

February 2025 – date

[SP5] Explainable Transcoding

Neha Thakur (Research Assistant)

August 2024 - date

[SP6] Speech Processing using GANs

Krupa Kothadia, Vaishak Kallampad

May 2022 – date (intermittent)

[SP7] DNA sequence and past epigenetic signals May 2025 - date

Sharanya Roy (High School student)

[SP8] Ethical AI: Biases in Acoustic Models May 2025 - date

Aarush Borole (High School student)

Select Student Projects Completed

[SP9] Spectral Analysis of Misinformation

Foroozan Akhavan

[SP10] Deep Learning for Indian Classical Music

Smahita Konduri, Kriti V. Pendyala (High School students)

[SP11] Machine Learning for Social Innovation

Saritha Podali

[SP12] Machine Learning for Metaverse

Riddhi Jain (Research Assistant)

[SP13] Sentiment Transfer

Shrisha Hegde (Research Assistant)

[SP14] Machine Learning for NOSQL

Parshv Patel (Research Assistant)

[SP15] Deep Learning for Conversions between Melodic Frameworks of Indian Classical Music

Rohan Surana, Aakash Varshney

[SP16] Genre Transformation using Artificial Intelligence

Revanth Krishna Maddula, Kailashnath Tallapragada

[SP17] Extracting and Leveraging Data from Public REST APIs

Thanmai Gajam, Sowmya Jupally, Laxmi Prasanna Palle

[SP18] Building Semantic Parsing Models for Medical Entity Recognition

Ajith Balaji Nagarajan, Pooja Ramaswamy, Rishika Machina, Thien Nguyen

[SP19] AI Based Cost Estimation System

Manmeet Gill, Sidarth Shahri, Manpreet Singh, Karthik Tella

[SP20] Enhanced Predictive Modeling of Cricket Game Duration Using Multiple Machine Learning Algorithms

Shivam Tyagi, Rashmi Kumari, Sarath Chandra Makkena, Swayam Swaroop Mishra

[SP21] Deep Learning for Similarity based Education

Vrinda Malhotra, Soumya Trivedi

[SP22] Experiments with Truth – Experiments with truth using Machine Learning: Spectral analysis and explainable classification of misinformation

Rakshit Gupta (Research Assistant) and Madhulika Dutta

[SP23] CycleGAN for NLP; Job market skills analysis

Sachin Kumar Srinivasa Murthy (Research Assistant)

[SP24] Climate Informatics

Sharad Nataraj (Research Assistant)

[SP25] Natural Language Understanding from long texts

Satvick Narahari and Uttej Gade