CURRICULUM VITAE **KARTHIK SRINIVASAN**
karthiks@ku.edu

RESEARCH INTERESTS

Generative AI, Interpretable Machine Learning, Health Information Systems, Crowdfunding, Corporate Disclosures

ACADEMIC APPOINTMENT

School of Business, University of Kansas, Lawrence, Kansas
Assistant Professor - Business Analytics Aug 2019 -

EDUCATION

Eller College of Management, University of Arizona, Tucson, US
PhD (Major: MIS, Minor: Statistics) Aug 2014 - May 2019

Indian Institute of Science, Bangalore, India
Master of Management (Major: Business Analytics)

Mumbai University, Mumbai, India
Bachelor of Engineering (Major: Electronics & Telecom.)

REFEREED JOURNALS

Fisher A., **Srinivasan K.**, Hillier S., Mago V. 2025. "HEAL-Summ: A Lightweight and Ethical Framework for Accessible Summarization of Health Information", *Frontiers - Digital Public Health*, 13(1).

Rao S., Juma N., **Srinivasan K.** 2025. "Textual Analysis of Sustainability Reports: Topics, Firm Value, and the Moderating Role of Assurance", *Journal of Risk and Financial Management*, 18(8), 463.

Jiang J., Liu B., Peng W., **Srinivasan K.** 2025. "TextRegress: A Python package for advanced regression analysis on long-form text data", *Software Impacts*, 100760.

Jiang J., Bandeli K. K., **Srinivasan K.** 2025. "Dynamic model selection in enterprise forecasting systems using sequence modeling", *Decision Support Systems*, 114439.

Srinivasan K., Currim F., Ram S. 2025 "A Reduced Modeling Approach for Making Predictions with Incomplete Data Having Blockwise Missing Patterns", *INFORMS Journal of Data Science*, 4(1), 85-99.

Zhu X., Li S., **Srinivasan K.**, Lash M. 2024 "Impact of the COVID-19 Pandemic on the Stock Market and Investor Online Word of Mouth", *Decision Support Systems*, 114074.

Kim B., **Srinivasan K.**, Ram S., et al. 2023. "ROLEX: A Novel Method for Interpretable Machine Learning using Robust Local Explanations", *MIS Quarterly*, 47(3), 1303-1332.

Srinivasan K., Currim F., Lindberg C., Ram S., et al. 2023. "Discovery of associative patterns between workplace sound level and physiological wellbeing

using wearable devices and empirical Bayes modeling", *NPJ Digital Medicine*, 6(5).

Augusto F. B., Numfor E., **Srinivasan K.**, et al. 2023. "Impact of public sentiments on the transmission of COVID-19 across a geographical gradient", *PeerJ*, 11, e14736.

Jiang J., **Srinivasan K.** 2023. "MoreThanSentiments: A text analysis package", *Software Impacts*, 15, 100456.

Srinivasan K., Currim F., Ram S. 2023. "A Human-in-the-loop Segmented Mixed-effects Modeling Method For Analyzing Wearables Data", *ACM Transactions on Management Information Systems*, 14(2), 18.

Srinivasan K., Jiang J. 2023. "Examining Disease Multimorbidity in U.S. Hospital Visits Before and During COVID-19 Pandemic: A Graph Analytics Approach", *ACM Transactions on Management Information Systems*, 14(2), 17.

Jiang J., **Srinivasan K.** 2023 "A Discrete Bayesian Network for Analyzing Hospital Discharge Data", *International Journal of Data Science*, 9(1), 1-18.

Singh Chauhan S., **Srinivasan K.**, Sharma T. 2022. "A trans-national comparison of stock market movements and related social media chatter during the COVID-19 pandemic", *Journal of Business Analytics*, 1-14.

Jiang J., **Srinivasan K.** 2021. "Comparing Pregnancy and Childbirth-Related Hospital Visits in Arizona Before and During COVID-19 Using Network Analysis", *Journal of Digital Science*, 3(2), 19-36.

Kong S.H., Ahn D., Kim B., Kim J.H., **Srinivasan K.**, et al. 2020. "A Novel Fracture Prediction Model Using Machine Learning in Community-Based Cohort", *Journal of Bone and Mineral Research* , 4(3), e10337.

Razjouyan J., Lee H., Nyugen H., Lindberg C., **Srinivasan K.**, et al. 2019. "Wellbuilt for wellbeing: Why controlling relative humidity matters for our health?", *Indoor Air*, 30(1), 167-179.

Srinivasan K., Currim F., Ram S. 2018. "Predicting high cost patients at point of admission using network science", *Journal of Biomedical Health Informatics*, 22(6), 1970-1977.

Lindberg C., **Srinivasan K.**, et al. 2018. "Effects of office workstation type on physical activity and stress", *Occupational and Environmental Medicine*, 75(10), 698-695.

Ghahramani A., Pantelic J., Lindberg C., Mehl M., **Srinivasan K.**, et al. 2018. "Learning occupants' workplace interactions from wearable and stationary ambient sensing systems", *Applied Energy*, 230(15), 42-51.

Non-peer Reviewed Publications

Tran A., Ojo F., **Srinivasan K.**, 2025 "Generative AI: Concepts, Challenges, and Research Opportunities", *SSRN*.

Jiang J., **Srinivasan K.**, Feng M., Bandeli K.K., Karchoudhury S., Schellner J. 2024 "Exploring Opportunities for Cross-Selling and Demand Forecasting in Retail Using Explanatory Graph Analytics", *SSRN*.

Lee H., Razjouyan J., Nyugen H., Lindberg C., **Srinivasan K.**, et al. 2018 "Sensor-based sleep quality index (SB-SQI): a new metric to examine the association of office workstation type on stress and sleep", *preprint*.

Manuscripts Under Review

Pu S., **Srinivasan K.**, Sherwood B., Tripathi A. "Does Narrative Impact Funding? Analyzing the Relationship Between Description Text and Pledged Amounts of Reward-based Crowdfunding Projects", under review at *Journal of Business Venturing*.

Jiang J., Feng M., **Srinivasan K.** "Beyond Forecast: A Practical Review of State-of-the-Art Methods in Forecast-Then-Optimize Framework", under review at *Neurocomputing*.

Jiang J., Feng M., **Srinivasan K.** "An Explainable Deep Learning Framework to Forecast Economic Uncertainty Using Social Media Data", under review at *Journal of Association for Information Systems*.

Working Papers

Currim F., **Srinivasan K.**, Tripathi A. "The Interplay of AI Hallucination, Expertise, and Group Dynamics on Software Development", to be submitted to *Management Science*.

Kim B., **Srinivasan K.**, Ram S. "Fairness-aware Graph Representation Learning for Multiple Patient Outcome Prediction in Intensive Care Units", to be submitted to *Journal of Management Information Systems*.

Sweeney J., **Srinivasan K.** "A Complex Social Learning System Framework for Aligning Health Analytics Applications", to be submitted to *Journal of Association for Information Systems*.

M. Ramasubramaniam, **Srinivasan K.**, "A Multi-objective Learning Framework for Choosing Algorithms Based on Fairness and Prediction Performance", to be submitted to *Journal of Management Information Systems*.

Jiang J., **Srinivasan K.** "Evaluating Deep Language Models for Predicting Firm Value using 10-K Managerial Discussions", to be submitted to *Journal of Association for Information Systems*.

Srinivasan K., Rao S., Juma N., Tripathi A., "Textual characteristics of Firm Sustainability Reports and their Informativeness on Firm KPIs", to be submitted to *Management Science*.

Rao S., **Srinivasan K.**, Juma N. "Sustainability Reporting Textual Disclosure For Assured And Non-assured firms", to be submitted to *Corporate Social Responsibility*.

Banerjee T., **Srinivasan K.**, Tripathi A. "Uncertainty quantification of predictive models in information systems: A scoping review", to be submitted to *Management Information Systems Quarterly.*

Work in Progress

"The Future of Research Crowdfunding: Sustainable Innovation or Fleeting Hype?", with Deepika Gopukumar, and Pallab Sanyal.

"GenAI in Clinical Documentation: Opportunities, Challenges, and Core Features", with Andrew Fisher, Salimur Choudhry, Sean Hillier, and Vijay Mago.

"Impact of Blockbuster projects on Crowdfunding projects", with Shaolin Pu, Arvind Tripathi, and Ben Sherwood.

"An empirical analysis of cybersecurity and firm performance?", with Songqi Fan and Mazhar Arikan.

"Improving fidelity of local explanations with data augmentation", with Joe Nordling.

"Model-agnostic robust local explanations for continuous data".

Refereed Workshops and Conferences

Currim F., **Srinivasan K.**, Tripathi A. "The Impact of Generative AI Hallucination on Coding Performance: The Moderating Role of Expertise and Group Dynamics", *International Conference on Information Systems (ICIS), Dec 2025.*

Sweeney J., **Srinivasan K.**, "A Framework to Align Healthcare Analytics Applications with Higher-Order Learning Outcomes", *Digital Public Health (DPH) Conference, Jul 2025.*

Jiang J., Feng M., **Srinivasan K.**, "Can Conversations on Reddit Forecast Future Economic Uncertainty? An Interpretable Machine Learning Approach", *International Conference on Information Systems (ICIS), Dec 2023.*

Srinivasan K., Rao S., Juma N., "Are Sustainability Reports Informative About Firm Value and Performance? A Text Mining Approach", *International Conference on Information Systems (ICIS), Dec 2023.*

Pu S., **Srinivasan K.**, Sherwood B., Tripathi A., "Does Narrative Impact Funding? Analyzing the Relationship Between Project Description and Pledged Amounts for Reward-based Crowdfunding Projects", *International Conference on Information Systems (ICIS), Dec 2023.*

Srinivasan K., Jiang J., "Leveraging Deep Language Models for Forecasting Firm Value Using Financial Disclosures", *Workshop on Information Technologies and Systems (WITS), Dec 2023.*

Jiang J., Bandeli K. K., Feng M., **Srinivasan K.**, "Forecasting Future Economic Uncertainty with Sentiments Embedded in Social Media",*International Conference on Social Computing, Behavioral-Cultural Modeling & Prediction and Behavior Representation in Modeling and Simulation (SBM), Sep 2023.*

Sweeney J., **Srinivasan K.**, Vervest P., "A Rapid Prediction and Response System (RPARS) to Facilitate Guided Self-Regulation During Pandemics",*International Conference on Design Science Research in Information Systems and Technology (DESRIST), June 2022.*

Pu S., **Srinivasan K.**, "Are Project Narrative Attributes Indicative of Pre-order Campaign Success on Crowdfunding Platforms? – A Text-Mining Approach",*Midwest Association of Information Systems (MWAIS), May 2022.*

Srinivasan K., Jiang J., "Capturing Enduring Effects of the COVID-19 Pandemic on Hospital Visits in U.S. Using Graph Modeling",*Health Information Technology Symposium (HITS) - AIS SIG-Health Sponsored pre-ICIS Workshop, Dec 2021.*

Kim B., **Srinivasan K.**, Ram S., "Healthcare Predictive Analytics Framework for Short-term Multiple Disease Prediction in Critical Care",*INFORMS Workshop on Data Science, Nov 2021* **(Best paper award)**.

Rao S., **Srinivasan K.**, "The Evolution of Sustainability Reporting Textual Disclosure: Evidence from the Largest US Corporations",*American Accounting Association International Accounting Section Mid-year meeting, Jan 2021.*

Kim B., **Srinivasan K.**, Ram S., "Robust Local Explanations for Healthcare Predictive Analytics: An Application to Fragility Fracture Risk Modeling", *International Conference on Information Systems (ICIS), Dec 2019.*

Srinivasan K., Currim F., Ram S. et al., "Using digital health wearable devices to understand the relationship between sound levels and wellbeing: A segmented mixed-effects regression approach", *Workshop on Information Technologies and Systems (WITS), Dec 2017.*

Srinivasan K., Currim F., Ram S. et al. "A regularization approach for identifying cumulative lagged effects in smart health applications", *Proceedings of the 7th International Conference on Digital Health*, pp 99-103, ACM, Jul 2017.

Srinivasan K., Currim F., Ram S. et al., "Feature importance and prediction modeling for multi-source healthcare data with missing values", *Proceedings of the 6th International Conference on Digital Health*, ACM, Apr 2016. **(Best paper award)**

Srinivasan K., Ram S., "Indoor environmental effects on individual wellbeing", *Proceedings of the 6th International Conference on Digital Health*, Apr 2016. (Extended Abstract)

Raturi V., **Srinivasan K.**, Narulkar G., Chandrashekharaiah A., and Gupta A., "Analyzing inter-modal competition between high speed rail and conventional transport systems: A game theoretic approach", *Proceedings of the 2nd Conference of Transportation Research Group of India*, Dec 2013.

Invited Talks and Presentations

Corporate Disclosure Analytics, Quantitative Methods Reading Group Summit, University of Kansas, (Oct 2025).

Interpretable Machine Learning using Robust Local Explanations, Data Analytics Team Lunch and Learn Speaker Session, McKesson Corp., (Oct 2025).

The Interplay of GenAI Hallucination, Expertise, and Collaboration on Software Development, AIO Speaker Series, University of Kansas, (Sep 2025).

Explanatory Modeling for Business Applications, Washburn University, Topeka, Kansas, (Apr 2024).

Are sustainability reports informative about firm value and performance? A text mining approach, MIS department, University of Arizona, (Mar 2024).

Leveraging Deep Language Models for Forecasting Firm Value Using Financial Disclosures, Workshop on Information Technologies and Systems (WITS), Hyderabad (Dec 2023).

Are sustainability reports informative about firm value and performance? A text mining approach, International Conference on Information Systems (ICIS), Hyderabad (Dec 2023).

Can conversations on Reddit forecast future economic uncertainty, International Conference on Information Systems (ICIS), Hyderabad (Dec 2023).

Does Narrative Impact Funding? Analyzing the Relationship Between Project Description and Pledged Amounts for Reward-based Crowdfunding Projects, International Conference on Information Systems (ICIS), Hyderabad (Dec 2023).

Interpretable Machine Learning using Robust Local Explanations, Economic Department Seminar Series, University of Kansas, (Apr 2023).

A Reduced Modeling Approach for Analyzing Incomplete Data with Blockwise Missing Patterns, Center for Business Analytics seminar, School of Business, University of Kansas, (Feb 2023).

Explanatory Modeling for Business Applications, Loyola institute of business administration, Chennai, India, (Dec 2022).

Local model agnostic explanations for healthcare analytics, DataLab, LakeHead University, Thunderbay, Canada (Sep 2021).

Explainable Machine Learning at a Local Level: An Application in Fragility Fracture Risk Modeling, Veterans Affairs Medical Center, Kansas City (June 2021).

Explainable AI for business, Plenary speech for Conference on impact of AI on business and society, Loyola institute of business administration, Chennai, India, (Feb 2021).

A novel method for developing local model-agnostic explanations, Indian Institute of Technology - Madras (IIT-M), Chennai, India, (Oct 2020).

Interpretable Machine Learning using local model-agnostic explanations, Center for Business Analytics Research, University of Kansas, Lawrence (Jan 2020).

Predicting high cost patients at point of admission using network science, AAG Weekly Sharing, DST Systems, Kansas City (Nov 2018).

Predicting high cost patients at point of admission using network science, INFORMS Annual Meeting, Phoenix (Nov 2018).

Determining the Effects of Sound Levels on Physiological Wellbeing in the Workplace: A Field Study Using Wearable Devices, Eller College of Management, University of Arizona (Oct 2018).

Predicting high cost patients at point of admission using network science, Eller College Doctoral Student Workshop, University of Arizona, Tucson (Apr 2018).

Using digital health wearable devices to understand the relationship between sound levels and wellbeing: A segmented mixed-effects regression approach, Workshop on Information Technologies and Systems (WITS), Seoul (Dec 2017).

A regularization approach for identifying cumulative lagged effects in smart health applications, International Conference on Digital Health, London (Jul 2017).

Knowledge discovery using disease comorbidity networks, INFORMS Annual Meeting, Nashville (Nov 2016).

Feature importance and prediction modeling for multi-source healthcare data with missing values, International Conference on Digital Health, Montreal (Mar 2016).

Data analysis with R *(one day workshop)*, Management Information Systems Graduate Association, University of Arizona, Tucson (Feb 2016).

Data science and technical social networking *(invited talk)*, K J Somaiya College of Engineering, Mumbai (Jul 2015).

White papers

Ram S., **Srinivasan K.**, Chagarlamudi S. "Analysis of chronic disease related patient visits in Arizona hospitals", *Making Action Possible dashboard report, Nov 2018*.

Srinivasan K., Iyer P., Kumar A., and Joshi A. "Manufacturing Process Optimization using Statistical Methodologies", *Technical report, Feb 2012.*

Book chapters

Srinivasan K. 2023. "Graph Data Management, Modeling, and Mining", *Encyclopedia of Data Science and Machine Learning*, IGI Global.

Software

MoreThanSentiments, *TextRegress*

Selected Media Coverage of Research

- *Key to healthier employees might be quieter or louder office space*, ThePrint (Feb 2023).
- *Key to healthier employees might be quieter or louder office space*, WION (Feb 2023).
- *Healthiest Noise level for the office is about 50 decibels*, Futurity (Feb 2023).
- *Workers in open-plan offices more active*, BBC (Aug 2018).

- *Staff in open plan offices are fitter and less stressed*, The Guardian (Aug 2018).
- *Open plan offices could make workers fitter*, The Telegraph (Aug 2018).

Certificates

Certificate in College Teaching (10-unit program) Jan 2018 - Dec 2018
Office of Instruction and assessment, University of Arizona

Teaching Experience

Instructor - University of Kansas

BSAN 726 - Data Management and Warehousing	Fall 2020-
BSAN/IST 326 - Database Management Systems	Fall 2019-
BSAN/IST 325 - Systems Analysis and Design	Fall 2019

Guest Instructor - KU Analytics Certificate Program

SQL, Business Intelligence	Spring 2020

Instructor - University of Arizona

MIS 331 - Database Management Systems	Fall 2017
MIS 111 - Computers and Inter-networked Society	Summer II 2016

Teaching assistant - University of Arizona

MIS 587 - Business Intelligence (Online)	Spring 2016-19

Academic honors

- Guy O. and Rosa Lee Mabry Best Paper Award at the School of Business, University of Kansas (2025).
- Robert and Codie Iorio Business Faculty Award at the School of Business, University of Kansas (2025).
- Best paper award at the INFORMS Workshop on Data Science (2021).
- Best reviewer award for IS in Healthcare track in International Conference on Information Systems (2020).
- James F. LaSalle Teaching Excellence Award for exemplary student instructor, University of Arizona (2017).
- Best paper award in the Sixth International Conference on Digital Health (2016).

Grants

- New Faculty Research Development (NFRD) grant from KU Office of Research (2021).
- Arizona Making Action Possible Dashboard (AZMAP) white paper grant (2017).
- Eller Small Grant Research data grant (2016).
- Graduate and Professional Students Council (GPSC) research travel grants (2015-2018).

Service

- Treasurer of the Special Interest Group on Decision Support and Analytics (SIGDSA) of the Association for Information Systems (AIS) - 2025-26.
- Editorial board member: Journal of Business Analytics.
- Editorial board member: International Journal of Data Science.
- Master of Science in Business Analytics (MS-BSAN) curriculum update committee member 2024-.
- Business Analytics major undergraduate curriculum update committee member 2023-25.
- Information Systems major undergraduate curriculum update committee member 2022.
- Faculty Mentor: Analytics and Information Systems Student Club - School of Business, University of Kansas 2021-.
- Program committee member: AAAI Joint International Workshop on Health Intelligence 2020-.
- Program committee member: Sustainable Business Management Conference - IIT-R 2023.
- External examiner - Management Science Ph.D. thesis of M. Agnel Xavier Fernando, Indian Institute of Science, Bengaluru, India, 2023.
- Associate professor (tenured) search committee member 2022.
- Assistant professor (tenure-track) search committee member 2021-2022.
- External examiner - Master of Science in Computer Science thesis of Mohiuddin Md Abdul Qudar, Lakehead University, Thunderbay, Canada, 2021.
- Faculty Mentor: Blockchain Institute - University of Kansas 2021.
- Faculty Mentor: Association of Indian Students - University of Kansas 2021-2023.
- Program committee member: International Conference on Artificial Intelligence in Medicine (AIME) 2020-2022.
- Program committee member: Robert Bosch Centre for Data Science and AI (RBCDSAI) - IIT-M Deployable AI conference 2021.
- Session Chair: 'Healthcare Analytics and Medical Decision-making' at INFORMS Annual Meeting 2018.
- Manuscript reviewer: Management Science (MS), Management Information Systems Quarterly (MISQ), Information Systems Research (ISR), Journal of the Association for Information Systems (JAIS), Transactions on Data and Knowledge Engineering (TKDE), Journal on Data Semantics (JODS), Journal of Business Analytics (JBA), Transaction on Management Information Systems (TMIS), Business and Information Systems Engineering (BISE), PLOS Digital Health, BMJ Open, Journal of Biomedical Informatics (JBI), Healthcare Analytics, International Journal of Data Science, Nature Scientific Reports, Nature Digital Health.
- Conference reviewer: International Conference on Information Systems (ICIS) 2019-, Pacific Asia Conference on Information Systems (PACIS) 2020-21, European Conference on Information Systems (ECIS) 2018.

PROFESSIONAL MEMBERSHIPS

Association for Information Systems (AIS), Association for the Advancement of Artificial Intelligence (AAAI) *(Past)*, Association for Computing Machinery (ACM) *(Past)*, Institute for Operations Research and the Management Sciences (INFORMS) *(Past)*.

INDUSTRY WORK EXPERIENCE

- Robert Bosch Ltd., Data Modeler and Analyst Intern (6 months)
- Accenture Ltd., Software Developer (2 years)
- ICICI Bank, Intern (3 months)
- Bhabha Atomic Research Center, Intern (1 year)

REFERENCES

Available upon request.