

Praveen Venkateswaran

Research Staff Member
IBM Research AI

✉ praveenv@uci.edu
📁 praveenv.github.io/

Education

- 2016–2021 **Ph.D. in Computer Science**, University of California, Irvine.
Thesis: *Leveraging Community Structure and Behavior for Smart Infrastructure*
Advisor: Nalini Venkatasubramanian
- 2011–2016 **M.S. in Mathematics and B.E. in Computer Science**, BITS Pilani, India.
Thesis: *Predictive Analytics for Monitoring and Event Management in Enterprise Systems*
Advisor: Aruna Malapati

Professional Experience

- Jan 2022–present **Research Staff Member**, IBM Research AI, Cambridge, Massachusetts.
- Jun 2021–Sep 2021 **Data and Applied Scientist Intern**, Microsoft, Redmond, Washington.
- Jun 2020–Sep 2020 **Research Intern**, IBM Research, Cambridge, Massachusetts.
- Jun 2019–Sep 2019 **Data and Applied Scientist Intern**, Microsoft, Redmond, Washington.
- Jun 2018–Sep 2018 **Research Intern**, Stanford Research International (SRI), Menlo Park, California.
- May 2014–Jun 2016 **Research Intern**, Tata Research Development and Design Centre, Pune, India.

Publications

- KDD 2021 **Environment Agnostic Invariant Risk Minimization for Classification of Sequential Datasets.**
Praveen Venkateswaran, Vinod Muthusamy, Vatche Isahagian, and Nalini Venkatasubramanian
International Conference on Knowledge Discovery & Data Mining (KDD), 2021
- PMC 2021 **REAM: A Framework for Resource Efficient Adaptive Monitoring of Community Spaces.**
Praveen Venkateswaran, Kyle E. Benson, Chia-Ying Hsieh, Cheng-Hsin Hsu, Sharad Mehrotra, and Nalini Venkatasubramanian
Pervasive and Mobile Computing (PMC), 2021
- BPM 2021 **Robust and Generalizable Predictive Models for Business Processes.**
Praveen Venkateswaran, Vinod Muthusamy, Vatche Isahagian, and Nalini Venkatasubramanian
International Conference on Business Process Management (BPM), 2021
- SMARTCOMP 2020 **REAM: Resource-Efficient Adaptive Monitoring of Community Spaces using Reinforcement Learning.**
Best Paper Award
Praveen Venkateswaran, Cheng-Hsin Hsu, Sharad Mehrotra, and Nalini Venkatasubramanian
International Conference on Smart Computing (SMARTCOMP), 2020
- ICCPS 2019 **Augmenting In-Situ with Mobile Sensing for Adaptive Monitoring of Water Distribution Networks.**
Praveen Venkateswaran, Mahima Agumbe Suresh and Nalini Venkatasubramanian
International Conference on Cyber-Physical Systems (ICCPS), 2019
- CHI 2018 **Touch To Talk: A Wearable Representing Social Media Metaphors.**
Saumya Gupta, Praveen Venkateswaran, Shruti Khurana, and Sindhuri Rayavaram
Extended Abstracts of the CHI Conference on Human Factors in Computing Systems, 2018
- ICCPS 2018 **Impact Driven Sensor Placement for Leak Detection in Community Water Networks.**
Praveen Venkateswaran, Qing Han, Ronald T. Eguchi, and Nalini Venkatasubramanian
International Conference on Cyber-Physical Systems (ICCPS), 2018
- ICDM 2016 **Domain Driven Forecasting: Applying Theory into Practice.**
Praveen Venkateswaran, Vikrant Shimpi, Maitreya Natu, and Vaishali Sadaphal
International Conference on Data Mining Workshops (ICDM), 2016

COMSNETS 2016 **Towards Next-Generation Alert Management of Data Centers.**
Praveen Venkateswaran, Aruna Malapati, Maitreya Natu, and Vaishali Sadaphal
International Conference on Communication Systems and Networks (COMSNETS), 2016

Awards

2020 SMARTCOMP Best Paper Award

Professional Service

Journal Reviewer Pervasive and Mobile Computing (PMC)

Web Chair Workshop on Scalable Deep Learning over Parallel And Distributed Infrastructures (ScaDL) 2022