

Abhinav Maurya

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RESEARCH INTERESTS	Machine Learning, Data Science, Bayesian Statistics, Deep Learning, Computational Social Science
EDUCATION	Carnegie Mellon University , Pittsburgh Aug 2013 – present <i>Ph.D. (Information Systems)</i> <ul style="list-style-type: none">◇ Research Focus: Development of machine learning methods for solving societal challenges.◇ Relevant Courses: Topics in Deep Learning, Neural Networks for NLP, Probabilistic Graphical Models, Convex Optimization, Computer Vision◇ Teaching Assistant: Introduction to Machine Learning, Machine Learning for Large Datasets IIT Bombay , Mumbai Aug 2010 – July 2012 <i>M.Tech. (Computer Science and Engineering)</i> <ul style="list-style-type: none">◇ Thesis: Machine Learning Algorithms for Traffic State Classification in WirelessAcrossRoad◇ Relevant Courses: Artificial Intelligence, Advanced Machine Learning, Topics in Machine Learning, Advanced Computer Networks, Seminar in Data Center Systems◇ Teaching Assistant: Introduction to Machine Learning, Advanced Machine Learning University of Mumbai (VJTI) , Mumbai Aug 2004 – May 2008 <i>B.Tech. (Computer Science and Engineering)</i> <ul style="list-style-type: none">◇ Relevant Courses: Intelligent Systems, Advanced Databases, Distributed Computing
PROFESSIONAL EXPERIENCE	IBM Research , Almaden May 2016 – Aug 2016 <i>Research Scientist Intern</i> <ul style="list-style-type: none">◇ Project: Bayesian optimization of non-convex metrics for binary classification on imbalanced datasets◇ Results: Three patents in progress. Nominated for INFORMS 2016 Service Science cluster best paper award. Winner of IEEE BigData 2016 travel grant sponsored by Robert Bosch GmbH. Journal paper in preparation. Microsoft Corporation , Redmond Oct 2012 – Aug 2013 <i>Software Development Engineer</i> <ul style="list-style-type: none">◇ Project: Microsoft Bing's 2013 UI/UX refresh in the core search and relevance team.◇ Minor Project: Executed a pilot project on Bing-Skype click-to-call integration.
RESEARCH PUBLICATIONS	<ul style="list-style-type: none">◇ Bayesian Multi-View Models for Member-Job Matching and Personalized Skill Recommendations. Abhinav Maurya, Rahul Telang. <i>IEEE International Conference on Big Data 2017</i>.◇ Making Personalized Skill Recommendations using Bayesian Member-Job Matching. Abhinav Maurya, Rahul Telang, Sai Sundar. <i>Invited presentation at INFORMS 2016 Session on Data Analytics and Machine Learning</i>.◇ Bayesian Optimization for Predicting Rare Internal Failures in Manufacturing Processes. Abhinav Maurya. <i>IEEE International Conference on Big Data 2016</i>. Winner of travel grant awarded by Robert Bosch GmbH.◇ Optimizing Predictive Precision for Actionable Forecasting of Revenue Change from Clients Receiving Periodic Services. Abhinav Maurya, Aly Megahed, Ray Strong, Jeanette Blomberg, Alaa

Elwany. *Finalist for INFORMS 2016 Service Science Cluster Best Paper Award. Three patents pending.*

- ◇ ClickToPrice: Incorporating Visual Features of Product Images in Price Prediction. Abhinav Maurya. *INFORMS 2016 Workshop on Data Mining and Decision Analytics (DMDA)*.
- ◇ Contrastive Structured Anomaly Detection for Gaussian Graphical Models. Abhinav Maurya, Mark Cheung. *ICML 2016 Workshop on Anomaly Detection*.
- ◇ Personalized Data-Driven Skill Recommendations and Skill Gap Prediction. Abhinav Maurya, Rahul Telang, Sai Sundar. *Patent pending*.
- ◇ Road-RFSense: A Practical RF-Sensing Based Road Traffic Estimation System for Developing Regions. Rijurekha Sen, Abhinav Maurya, Bhaskaran Raman, Amarjeet Singh, Rupesh Mehta, Ramakrishnan Kalyanaraman. *ACM Transactions on Sensor Networks, 2014*.
- ◇ Kyun Queue: A Sensor Network System to monitor Road Traffic Queues. Rijurekha Sen, Abhinav Maurya, Bhaskaran Raman, Rupesh Mehta, Ramakrishnan Kalyanaraman, Nagamanoj Vankadhara, Swaroop Roy, Prashima Sharma. *ACM Conference on Embedded Networked Sensor Systems, 2012*.

HONOURS AND AWARDS

- ◇ Winner of Yelp's seventh dataset challenge.
- ◇ CMU's Social Innovation Fellowship 2017.
- ◇ Awarded the LinkedIn economic graph challenge grant in 2015.
- ◇ Awarded a travel grant by Robert Bosch GmbH for attending IEEE BigData 2016.
- ◇ Awarded a computing resources grant by Microsoft Azure for Research.
- ◇ Finalist for 2016 INFORMS Service Science Cluster Best Paper Award.
- ◇ Invited presentation at the INFORMS 2016 session on Data Analytics and Machine Learning.
- ◇ All India Rank 46 (99.95 percentile) in Graduate Aptitude Test in Engineering for Computer Science (GATE-CS) 2010.
- ◇ JRD Tata Scholarship for academic excellence awarded in years 2006, 2007, and 2008.
- ◇ Finalist in Eureka'08, a business plan contest organized by IIT Bombay's Entrepreneurship Cell.

SKILL SET

C, C++, Java, Scala, Python, R, Hadoop, Spark