

Pramod Anantharam

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RESEARCH INTERESTS

• Learning From Data • Predictive Analytics • Probabilistic Graphical Models • Data Science for Social Good • Recommender Systems • Information Extraction • Semantic Web

EDUCATION

KNO.E.SIS

WRIGHT STATE UNIVERSITY

PHD IN COMPUTER SCIENCE

April 2016 | Dayton, OH, USA

VTU

VISVESVARAYA TECHNOLOGICAL UNIVERSITY

BE IN ELECTRICAL ENGINEERING

June 2006 | Bangalore, India

PUBLICATIONS

• Published in ACM TIST Journal, AAAI, SDM • 430+ citations • h-index: 10 • 2 awarded patents • Served on Program Committee for WWW, ISWC, IJCAI, ESWC, Hypertext, IEEE iThings, Data Mining and Knowledge Discovery, IEEE Transactions on Industrial Informatics, IEEE Internet of Things Journal

SKILLS

Solving Data Problems with • Supervised Learning (Bayesian Networks, Conditional Random Field, Linear Regression, Logistic Regression, Decision Trees, Random Forest, Support Vector Machine, Neural Networks) • Unsupervised learning (Clustering temporal data, clustering user preferences) • Time Series Models (Linear Dynamical Systems, Hidden Markov Models, ARIMA) • Recommender Systems (user preference representation & learning, ranking algorithms, evaluation metrics) • Reinforcement learning (Markov Decision Process)

Databases : • MySQL • Virtuoso • Jena • Neo4j

Languages : • Programming: Java, Python, R, Matlab, Shell, PHP, Scheme, Java Script, • Knowledge Representation: RDF, RDFS, OWL

Google Scholar LinkedIn, Twitter, G+

EXPERIENCE

BEZIRK, ROBERT BOSCH LLC | RESEARCH SCIENTIST

May 2016 – Present | Pittsburgh, PA

- Responsible for creating, prototyping, and validating personalization technologies.
- Design and development of recommendation algorithms for retail.
- Generation of smart shopping list.
- Evaluation of recommendation algorithms.

ROBERT BOSCH RESEARCH AND TECHNOLOGY CENTER | RESEARCH INTERN

May 2014 – Aug 2014 | Pittsburgh, PA

Task recommendation for DIY (Do-It-Yourself) tasks using an Markov Decision Process implementation.

UNIVERSITY OF SURREY | VISITING DOCTORAL STUDENT

Sep 2013 – Dec 2013 | Guildford, United Kingdom

Extract city traffic related events from tweets reported by people in a city.

IBM RESEARCH | RESEARCH INTERN

May 2012 – Sep 2012 | Delhi, India

Assess impact of traffic events extracted from SMS messages on schedule of public transport vehicles for better planning.

IBM RESEARCH | RESEARCH INTERN

May 2011 – Sep 2011 | Delhi, India

Dynamic ontology evolution to keep up with domain changes manifesting in documents related to the domain.

RESEARCH

TRAFFIC ANALYTICS | GRADUATE RESEARCH ASSISTANT

Information Extraction to extract city events from social stream such as twitter, Machine Learning techniques for modeling time series dynamics, Anomaly detection.

K-HEALTH FOR ASTHMA | GRADUATE RESEARCH ASSISTANT

Probabilistic risk assessment model for reducing asthma attacks using active and passive sensing of physiological, physical, and environmental observations.

SEMANTIC SENSOR WEB | GRADUATE RESEARCH ASSISTANT

Modeling trustworthiness of sensor nodes using Bayesian approaches.

AWARDS AND RECOGNITION

- 2016 Outstanding Graduate Student Award for Ph.D. in Computer Science
- 2015 Selected to participate in the NSF-funded Data Science Workshop
- 2015 Our ACM TIST paper was a featured and 5th most downloaded article
- 2014 Offered Eric & Wendy Schmidt Data Science for Social Good Fellowship
- 2013 A short article on my research appeared on our university newsroom
- 2013 Invited to Dagstuhl Seminar on Physical-Cyber-Social Computing
- 2013 Invited to talk on Data Analytics for IoT at University of Debrecen
- 2012 Best research showcase award at IBM Research, India