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 • Virtouso • 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 extact 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

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