# Priyesh Vijayan

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## RESEARCH INTERESTS

**MACHINE LEARNING:** Class imbalance • Semi-supervised Multi-view learning • Active learning
**SOCIAL NETWORK ANALYSIS:** Node classification • Community detection • Role analysis
**DEEP LEARNING:** CNNs for Images and Graphs • Sequence models for NLP tasks

## EDUCATION

### INDIAN INSTITUTE OF TECHNOLOGY MADRAS, CHENNAI
MS in Computer Science and Engineering
Jan'15 - May'17 Expected |• CGPA: 8.22 / 10

### SRI VENKATESWARA COLLEGE OF ENGINEERING | ANNA UNIVERSITY, CHENNAI
BE in Computer Science and Engineering
Aug'09 - May'13 | CGPA: 7.29 / 10

## EXPERIENCE

### RISE-IIL| INDIAN INSTITUTE OF TECHNOLOGY MADRAS | Project Associate
July 2014 – May 2015 | Supervisor: Dr. Balaraman Ravindran
Project: Wafer data inspection | An IITM-KLA Tencor Collaboration

- Worked on extreme binary and multiple classes class imbalance classification problems to detect defects in wafers. Well studied the class imbalance literature and experimented various techniques to address the problem.
- Worked on semi-supervised , multi-view and active learning approaches to handle class imbalance.

### ERICSSON R&D | Research Intern
May 2013 – Aug 2013 | Supervisor: Shivashankar Subramanian

- Worked on learning from heterogeneous data sources for attributed networks. Proposed a Co-Training based framework for multi-label learning in multi-attribute and multi-relational networks.
- Worked on data analysis and alarm prediction with Telecom data.

### GLOBAL OPERATIONS TEAM | PAYPAL | Intern
Dec 2011| Supervisor: Ms. Bhaduri Raju Naidu

- Developed a web application tool with J2EE and MYSQL for Resource mapping and Reporting

## PATENTS

### USER CATEGORIZATION IN COMMUNICATIONS NETWORKS | United States 20150236910
Work done during internship at Ericsson R&D | Collaborator: Shivashankar Subramanian

## PUBLICATION

### MULTI-LABEL COLLECTIVE CLASSIFICATION IN MULTI-ATTRIBUTE MULTI-RELATIONAL NETWORK DATA | IEEE/ACM ASONAM 2014
Work done during internship at Ericsson R&D | Collaborators: Shivashankar Subramanian & Dr. Balaraman Ravindran

### GRID SCHEDULING USING IMPROVED PARTICLE SWARM OPTIMIZATION WITH DIGITAL PHEROMONES | IJSER 2012 Proceedings
Collaborators: A P Sarath Chandar & Dr. Doreen Robin

## PROGRAMMING

### LANGUAGES
Expert: Python, MATLAB
Intermediate: C++ • Java • C

### LIBRARIES
TensorFlow