Yelugam Pranay Kumar

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Education

University of Massachusetts — Amherst, MA
Master of Science in Computer Science with specialization in data science — *Feb 2021 – May 2022*
Relevant course work: Distributed Systems, Machine Learning and Intelligence Visual Computing

Indian Institute of Informtion Technology — Allahabad, India
Bachelor of Technology in Computer Science — *Aug 2014 – July 2018*
Relevant course work: Data Structures and Algorithms, Operating Systems, Data Mining, Machine Learning, Artificial Intelligence

Experience

Graduate Research Student, UMass — Amherst, MA
Information Extraction and Synthesis Laboratory(IESL) — *Feb 2021 - Present*
- Working on analysis of Discourse in OpenReview under the guidance of Prof. Andrew McCallum

Software Engineer, Samsung — Delhi, India
Unified Metadata Team — *July 2018 - Dec 2020*
- Applied Convolutional neural networks to find out if the movies/content from different content-providers are similar to increase congruency of content on Samsung TV
- Developed a cast and poster based neural network classifier to further identify the different content from various content-providers. This has reduced the manual merging rate of conflicted content by 32%
- Developed metadata-parsers in Scala which deals with daily ingestion of TV programs and schedules related to major streaming applications like TvPlus, Apple TV, Amazon Prime etc
- Re-launched Search Data Exporter for the content in Samsung search with 12% reduced latency and introduced new features to eliminate the image mixing problem for a program from different content-providers

SDE Intern, RoadPiper Technologies — Mumbai, India
Product Team — *Jan 2018 - Jun 2018*
- Designed and developed the web portal for RoadPiper Technologies (Roadpiper.com) using ReactJS as the frontend framework and Redux for state-management in 4 months; the web portal is live in production
- Implemented server-side-rendering and code-splitting to reduce the latency by 35%

Publications

Y.Pranay Kumar, Bharadwaju, K. Anudeep, A. Vamshi Krishna, Bakshi Rohit Prasad, Sonali Agarwal "Real time mining of ego networks for exploring social associations" CICT, 2017

Projects

Exploring Circles in Ego Networks | *Python, Flask, PageRank Algorithm and Clustering Algorithms* — Fall 2016
- Proposed and developed clustering based approach for mining of ego networks to explore ego's social associations and rank them using PageRank

Co-Authorship Analysis | *Python, Networkx, Link Prediction Algorithms* — Spring 2017
- Implemented a Link Prediction approach to create a recommender system that helps in finding potential collaborators for an author

Languages and Technologies

- **Python**: PyTorch, sckit-learn, pandas, numpy, NLTK, matplotlib
- **Others**:C/C++, Scala, Java, JavaScript, PostgreSQL, ReactJS, Redux, Akka, Git, AWS (EC2, S3), Google Colab

Activities and Achievements

- Awarded Best Intern at RoadPiper Technologies, Mumbai
- Awarded Spot Award for best performance in a quarter at Samsung Research Institute, Delhi
- Member of the National Sports Organization in Badminton at IIIT Allahabad