Tejasvi Ravi

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EDUCATION

University of Massachusetts - Amherst, MA *December 2019 (Expected)*

M.Sc. in Computer Science - 3.67 CGPA

- *Courses*: Neural Networks, Machine Learning, Systems for Data Science, Computer Vision

PES Institute of Technology - Bangalore, India *May 2015*

B.Tech in Computer Science - 3.77 CGPA

WORK EXPERIENCE

Software Engineer Intern, Microsoft - Redmond, WA *May 2018 - Aug 2018*

- Building a bot, that answers queries regarding builds and their metrics for Office products
  Won the Machine Learning And Data Science conference 2018 hackathon

Member of Technical Staff 2 (SDE2) RnD, VMware - Bangalore, India *July 2015 - Aug 2017*

- Developed policy based storage management framework using Java for vCenter
- Filed for a *patent*, in the domain of predicting and preventing system failures for vCenter
  Won Best Project Award and Best market potential award at VMware hackathons

Co-Founder, TagAlong - Bangalore, India *Summer 2014*

- Designed and developed ridesharing/ ride-hailing Android application; incubated @ *MIT Global Startup Labs 2014*

Student Developer, Google Summer of Code *Summer 2013*

- Developed code for Tahrir project under Freenet project organization, implementing microblogs, user profiles and communication amongst users in java

PROJECTS AND PUBLICATIONS

Understudy Approach - A Multi-Agent Reinforcement Learning technique

ravitejasvi.com/assets/understudy-approach.pdf

- Introduced a MARL technique that trains agents to learn tasks involving cooperation by combining the different models of agents trained on simpler objectives

Super Resolve Videos using SRGANs

https://github.com/ravisvi/super-resolution-videos

- Extended the state of the art SRGANs technique to super resolve videos for the course on Computer Vision by Prof. Subranshu Maji

An Early Risk Detection and Management System for the Cloud with Log Parser - *Elsevier 2018*

https://doi.org/10.1016/j.compind.2018.01.018

- Built a system that used machine learning techniques to provide insights into the fatal operations on a cloud server, and recommend steps to eliminate the risks in real time

Quality of Service on Greenplum

- Introduced priority groups to queries in GreenPlum database which helped improve the response time by 80% and 10% for high priority users and low priority users respectively
  Awarded the best capstone project under "Technology impact" (out of 70) in PESIT 2015

TECHNICAL SKILLS

Java, Python, Data Structures, C, React, JS, Git, Android, Matlab, HTML, CSS

EXTRACURRICULARS

- Founded and led Entrepreneurship Club at PESIT; hosted flagship event with 200+ participants; raised $5000 from Reliance, Github
- CS social committee chair at University of Massachusetts