Tejasvi Ravi

ravitejasvi.com

+1 (413) 404-4190

ravitejasvi@gmail.com

I'm passionate about applying machine learning to build innovative products that have a strong impact on people and our planet. I have experience building prototypes as well as working with large codebases.

EDUCATION

University of Massachusetts - Amherst, MA — Dec 2019 (Expected)

M.Sc. in Computer Science

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

PES Institute of Technology - Bangalore, India — May 2015

B.Tech in Computer Science

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, VMware RnD - Bangalore, India — July 2015 - Aug 2017

- Developed distributed storage management framework that improved availability by 30%.
- 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*

Student Developer, Google Summer of Code — Summer 2013 & 2014

- Implemented user profiles and communication for Tahrir under Freenet project organization

Co-Founder, TagAlong - Incubated @ **MIT Global Startup Labs** — Summer 2014

- Designed and developed ridesharing/ ride-hailing Android application

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 co-operative tasks by combining the different learning models; Project for Neural Networks (CS682) course under Dr. Erik Miller

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 Computer Vision (CS670) under Dr. 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, C, JS, SciKit, Hadoop; Machine Learning, Neural Networks, Blockchain, Data Structures

EXTRACURRICULARS

- CS social committee chair at University of Massachusetts
- Founded and led Entrepreneurship Club at PESIT; hosted flagship event with 200+ participants; raised $5000 from Reliance, Github
- Speaker at Women Who Code meetup at VMware on Container Technologies in VMs