

# Tejasvi Ravi

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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 - 3.67 CGPA

→ Courses: Machine Learning, Systems for Data Science, Neural Networks, 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, 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*

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

Summer 2014

- Designed and developed ridesharing/ ride-hailing Android application

**Student Developer, Google Summer of Code**

Summer 2013 & 2014

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

## PROJECTS AND PUBLICATIONS

**Understudy Approach - A Multi-Agent Reinforcement Learning technique**

[ravitejasvi.com/assets/understudy-approach.pdf](http://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
- Gave a talk on container technologies at Women Who Code meetup at VMware