

Jayanth Reddy Regatti

Phone: (+1) 614-852-1763

E-mail: regatti.1@osu.edu

Address: 567 Stinchcomb Dr, Apt 1, Columbus, OH, 43202.

OBJECTIVE

Seeking a challenging career in the fields of **Machine Learning, Autonomous Vehicles and Software Development**. My research interests include applications of machine learning in autonomous vehicles and intelligent transportation systems

EDUCATION

Ohio State University, Columbus

Aug 2016 - May 2018 (expected)

Degree: Master of Science (Thesis)

GPA: 3.93/4.0

Major: Electrical and Computer Engineering

Relevant Coursework: Theory of Statistical Learning, Autonomy in Vehicles, Game Theory, Pattern Recognition & Machine Learning, Image Processing & Computer Vision, Speech and Language Processing, Convex Optimization, Real Analysis I II, Linear Mathematics, Algorithms, Probability & Random Processes and Project Management.

Indian Institute of Technology (IIT) Hyderabad

Aug 2011 - May 2015

Degree: Bachelor of Technology (Honors)

GPA: 8.22/10.0

Major: Electrical Engineering

Honors GPA: 9.25/10.0

Relevant Coursework: Detection and Estimation, Image and Video Processing, Information Theory, Wavelets

SOFTWARE SKILLS

C, C++, Python, R, OpenCV, MATLAB, Tensorflow, SQL, Git, Linux, Windows, L^AT_EX, LabVIEW, Tableau

WORK EXPERIENCE

The Ohio State University, Graduate Research Assistant

Aug '17 - present

- Developed a software to simulate traffic conditions to enable an autonomous vehicle to navigate through the environment.
- The software is intended to be a customizable api for researchers to play with and experiment with their models.
- The software was built from scratch by developing our own data structures for several layers of abstraction like road networks, driving modules, sensor suites, communication modules.
- We are currently working on reinforcement learning and dynamic programming techniques to optimize fuel consumption of the simulated vehicles.

Ford Motor Company, Dearborn, Research and Advanced Engineering Intern

May '17 - Jul '17

- Analyzed opportunistic utilization of enterprise WiFi for AV (autonomous vehicle) connectivity
- Proposed an optimized file sharing technique to effectively utilize bandwidth for OTA software updates in AV use cases

Bank of America, Hyderabad, India, Sr. Tech Associate

Jul '15 - Jul '16

- Designed real-time, interactive dashboards using Tableau to present equity sales reports to business users
- Analysed equity reports for migration to Tableau environment and creation of Tableau data sources using Alteryx

RELEVANT PROJECTS

Stance Detection: Fake news challenge, Dr. Wei Xu

Feb '17 - May '17

- Used techniques from NLP to conditionally classify if a headline agrees, disagrees or is neutral with the news body
- Implemented a hierarchical hybrid model using random forests, LSTM using tensorflow and secured 7th place in stage 1 of the Fake News Challenge, achieving a score of 0.8.

Course Recommendation Engine for OSU, HACK OHIO

Nov '16

- Used collaborative filtering techniques to mine the students interests and provide suggestions for coursework
- Developed a web portal for students to manage their course interests and get course recommendations

Action Unit (AU) Detection for Facial Expression Recognition, Prof. Alex Martinez

Nov '16 - Dec '16

- Applied non-linear classification techniques (kernel PCA + LDA) with an RBF kernel to detect the presence of AUs
- Compared the performance of linear classification techniques against the optimized kernel classification techniques

Age Group Classification of Facial Features, Prof. Sumohana Channappayya

Jan '14- Apr '14

- Estimated the age group of a person in the facial image using their wrinkle intensity as the feature
- Used Gabor filters at varying orientations to extract the wrinkle features from the images

DISTINCTIONS

- Recipient of the 2016 **J.N.TATA Endowment Scholarship** for Indian Students studying abroad.
- Leader of the team representing IIT Hyderabad, that won the first Inter IIT Tech meet at IIT Kanpur, Mar '13.