

# Rohan Kumar Tumkur Suresh

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## EDUCATION

### **Stony Brook University**

*Master of Science, Computer Science*

*Coursework: Analysis of Algorithms, Probability & Statistics, Data Science, NLP, Computer Vision, Visualization*

Jan 2020 - May 2021

GPA: 3.64/4.0

### **Dayananda Sagar College of Engineering**

*Bachelor of Engineering, Computer Science*

Bangalore, India

August 2013 - June 2017

## TECHNICAL SKILLS

- Python, Java, JavaScript, TypeScript, HTML, CSS, C, C++
- TensorFlow, PyTorch, Spring, Spring Boot, Node.js, Express, Flask, Angular, React, Android
- SQL, Oracle, MySQL, MongoDB, Cassandra, PostgreSQL
- Docker, Kubernetes, AWS, Pivotal Cloud Foundry (PCF), Firebase

## WORK EXPERIENCE

### **Stony Brook University**

*Graduate Research Assistant*

Stony Brook, NY

May, 2020 – Present

#### • **Fetal Heart Rate**

- Designed the database schema to store pregnancy related information of the patient
- Worked on the web application to plot the electronic fetal monitoring (EFM) data

#### • **UI Automation**

- Working on Microsoft UI Automation based dashboard to assist the visually challenged to operate a windows system
- Training a Decision Tree model to filter the required elements in the application

### **JP Morgan Chase**

*Software Engineer*

Bangalore, India

July, 2017 – January, 2020

- Led the full stack development of REST APIs and user interface for multiple modules in the team
- Developed automation scripts to help DevOps team reduce time and efforts during production release
- Contributed to the architecture for a new module developed and presented the same to the CIO
- Integrated LinkedIn Authentication, first of a kind in the company
- Worked on setting up a new external user facing project from scratch with security and controls

### **Ayata Intelligence**

*Machine Learning Intern*

Bangalore, India

April, 2017 – July, 2017

- Trained Fully Convolutional Network model for indoor navigation to assist the visually challenged based on the road segmentation model used for self-driving cars
- Implemented features such as face recognition using HOG encoding and capturing 128 measurements of the face by running through a neural net and currency detection using Tensorflow object detection

## PROJECT WORK

### **Visual Sentiment Analysis**

November, 2020 – December, 2020

- Analysed different models such as LSTM, CNN, DAN to extract the sentiment of any image using the image captioning text from show and tell model

### **Search and rescue drone with autonomous exploration**

January, 2017 – June, 2017

- Built an autonomous navigation model to navigate drones inside buildings and perform object detection to assist first responders with search and rescue activities

### **Sign2Speak**

March, 2017 – May, 2017

- Trained and built a CNN model based on inception-v3, integrated with an android application which converts Indian sign language to English text

## EXTRA ACTIVITIES

- Won 3 hackathons and runners-up at 5 hackathons
- Mentor at SEP 2019, JP Morgan for Flow Monster Project & Microsoft Innovation Lab, DSCE, Bangalore
- Completed course 'Applied CS with Android' from Google (2016)
- Conducted workshop on Machine learning, Mobile Application development, Web development at DSCE