# Tushar Mhalsekar

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## **EDUCATION**

# **Arizona State University**

Tempe, AZ

Master of Science in Computer Science | GPA: 3.67/4.0

Aug. 2019 - Expected May. 2021

## St. Francis Institute of Technology

Mumbai, India

Bachelor of Engineering in Computer Engineering | GPA: 8.5/10

Jul. 2015 - May. 2019

## EXPERIENCE

# Cateina Technologies (www.stopcovid.io)

Remote

Software Development Intern

Jun. 2020 - Aug. 2020

- Collaborated on a Blockchain platform for Comgo which helps users to check, in real-time, the impact their donations generate for NGO projects that are combating the effects of the COVID-19 pandemic across Spain.
- Developed the core of the platform using a tech stack consisting of MongoDB, Express.js, Angular and Node.js.
- Configured the Blockchain framework using Hyperledger Fabric to trace the impact of the aid offered by the donors.
- Designed a smart contract that involved setting up certificate authority along with order and peer nodes.

#### Indian Data Science Hub

Mumbai, India

Software Development Intern

Jun. 2019 - Sep. 2019

- o Collaborated on a beginner-friendly end-to-end Machine Learning toolkit built using Python and Angular.
- o Developed the data modeling module for the toolkit which involved emulating algorithms like Linear models, K-Nearest Neighbors, Neural Nets, etc.
- Orchestrated team meetings for coordinating the process of designing the user interface to achieve consistency throughout the application.

#### **PROJECTS**

# Identifying Depression Symptoms on Social Media [Python, Flask, Javascript, HTML/CSS]

- Devised a tool which detects depression symptoms in users on Twitter by performing natural language processing on the user's tweets.
- Implemented system was able to achieve an accuracy of nearly 70 % for predicting probable symptoms of depression that is based on the PHQ-9 (Patient Health Questionnaire-9).

#### Geo-Spatial Data Analyzer for Ride Sharing Services [Java, AWS, Hadoop, Apache Spark]

- o Designed a Java application to identify busy commute areas to help drivers find customers faster and more efficiently.
- $\circ$  Deployed the application using Amazon Elastic Cloud(EC2) services to achieve about 36 % faster performance and 50 % less memory utilization compared to local machine performances.

#### Stock Prediction using Viral Trends [Python, Flask, REST, Javascript, HTML/CSS]

- Built a website which predicts the rise and fall of stock prices based on viral news and social media trends using machine learning.
- Implemented system was able to predict hourly stock price direction with an accuracy of nearly 70 %.

# Eyedentify(Object Detection Android Application) [Python, Java]

- Developed an object detection application to help visually impaired users to navigate through environments using the TensorFlow and SSD MobileNetV1 neural network models which achieved an accuracy of 73 %.
- Incorporated text-to-speech functionalities which notified the users of the type of object in the vicinity.

## Sell it (Android Classifieds Application) [Node.js, Firebase, Java]

- Created an android application where users can interact and perform trade with other users.
- Deployed the application using Google Cloud Platform and used Elasticsearch for distributed real time search.

# SKILLS

Languages: Python | C++ | C | Java | SQL | Javascript | HTML/CSS |

Frameworks/Technologies: Angular | Flask | Hadoop | React | Apache Spark | Node.js | Git | REST | Express.js

## Extracurricular

Object Oriented Programming Teaching Assistant Member of Social Responsibility Cell Tutored and handled the grading for 120 students.

Organized and managed multiple orphanage visits, social awareness and cleanliness drives across Mumbai.