Aashay Mukesh Motiwala

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LinkedIn | GitHub

SUMMARY

Diligent Full Stack developer & Data Engineering enthusiast with demonstrated history of working with Web frameworks. Firm believer in productive brainstorming to convert general problems into algorithmic solutions through innovative approaches.

EDUCATION

Santa Clara University, CA — Mar 2021 – Mar 2023

Candidate for Master's in Computer Science and Engineering — GPA 4.00/4.00

Relevant Courses: Design & Analysis of Algorithms, Computer Architecture, Advanced Database Systems, Computer Networks, Machine Learning, Distributed Systems.

University of Mumbai, India — Jun 2016 - Nov 2020

Candidate for Bachelor of Information Technology — GPA 8.15/10.00

Relevant Courses: Data Structures and Analysis of Algorithms, Operating System, Data Mining and Business Intelligence, Cloud Computing, Big Data, Artificial Intelligence, Internet programming, Cryptography and Network Security.

SKILLS

Languages - Python, Java, JavaScript, Bash, C
Databases - MySQL, MongoDB, Oracle, Hive
Cloud - Google Cloud Platform
ML Frameworks - TensorFlow, NumPy, Pandas
Web Technologies - ReactJS, NodeJS, Flask, REST, HTML, CSS
Data Visualization - Matplotlib

WORK EXPERIENCE

Capgemini – Software Developer Intern — Nov 2020 – Feb 2021

- Created a pneumonia detection model which provided **precision and recall rate of 96.66%.** Was achieved by using **AutoML Vision** and **Gradient boosted** model using 5190 Chest X-Ray images.
- Developed model for Fraud detection in transactions and streamlined the data using **GCP's Dataflow and AI platform** which eventually stored the predicted information on cloud storage using **Big Query**.

Try catch Group – Machine Learning Intern — Aug 2019 – Feb 2020

- To analyze **polarity** and **subjectivity score** behind every tweet, generated sentimental analysis on 'Elections in India' using **Tweepy API.** Used **Text blob** and **Vader** libraries.
- Developed Gender recognition using **Support Vector machine.** Lead the project to educate this and other similar projects to the students that were enrolled at Try catch.

Tech Cryptors – Embedded Systems and Software Intern — Jun 2018 – Aug 2018

- Built **IoT** systems like 'Obstacle Avoiding Robot' and 'Fire Management System' using **Arduino** which communicated to the server using **Thing speak** for analyzing the data on the go.

PROJECTS

parKING – A smart parking assistant for safe parking.

- Developed a web app for ACM hackathon that ranked the on-street parking. Compared **Random Forest** and **Decision Tree** models and achieved an **AUC score of 87%.**
- Tech Stack – Flask, Leaflet.js, Rest services, Google Map API, HTML, CSS, Java Script.

E-voting using Block Chain

- Developed an application using **Proof of Work (PoW) consensus algorithm** and secured the voting process to prevent data manipulation.
- Tech Stack – Python, Flask, **OpenCV cascade**, PYQT, Restful services.

Post-Conviction Relief for Immigrants in California (Awarded 1st prize in hackathon)

- Designed an interactive website to help non-citizens find Post-Conviction Relief for ILRC. Using **rule-based engine** and **Survey JS** collected information about the users and their case.
- Tech Stack – Flask, Survey.js, JavaScript, Rest services, HTML, CSS , Yup Validation.

ACHIEVEMENTS & CERTIFICATIONS

- Secured 1st Place - Second Chances Empathy Hackathon
- Algorithmic Toolbox offered by UC San Diego, Machine Learning with Python- IBM, Data Analysis - IBM

PUBLICATION

- "E – Voting System Using Block-chain". SamRiddhi, A Journal of Eng & Tech. Volume 11 No SUP (2019).