AASHAY MOTIWALA

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EDUCATION

Atharva College of Engineering, Mumbai, India.   **Expected May 2020**
Candidate for Bachelor of Engineering in Information Technology with *Distinction*.
Relevant Courses: Artificial Intelligence, Data Structure, Operating Systems, Advanced Data Structure and Analysis of Algorithm, Software Engineering, Wireless Computer Networks and Internet Of Things.

PROFESSIONAL EXPERIENCE

Capgemini, Mumbai   **August 2020 - February 2021**
GCP AI Intern
- Worked on 'Running visual quality inspection at the edge with Google Cloud' using Google Cloud Platform's AutoML and BigQuery to identify defects on metal plates by identifying cracks, weak bonds from the image datasets containing sample images.
- Developed 'Anomaly detection in Financial Transactions' using GCP's Cloud AI and Dataflow, BigQuery. Created a Tensorflow boosted tree model using kaggle dataset and deployed it on Cloud AI for online predictions.
- Implemented 'Pneumonia Detection using Chest X-Ray Images' using Google AutoML. The model detected whether a person has pneumonia or not by comparing it with 1349 healthy lungs's X-Ray. It was also able to identify the type of pneumonia (i.e. Bacterial or Viral).

TryCatch Group, Mumbai   **August 2019 - February 2020**
Machine Learning Intern
- Creating Sentiment analysis on the topic 'Elections in India' using twitter API to extract all tweets related to elections and AFINN dictionary to generate sentiment rating for each tweet. Generated a graph and pie chart based on the analysis to depict if the results were positive, negative, or neutral.
- Designed an ML based 'Indian Premier League 2008-2018' model that analyzed key success factors for top cricket teams in the IPL. The match's data set contains 18 variables and 600+ observations with the delivery's data set containing 21 variables and 160,000+ observations.
- Developed 'Gender recognition by voice' to Identify a voice as male or female. Employed a data set that contains 21 variables and 3,000+ observations to identify a voice as male or female using acoustic properties of voice and speech.

TechCryptors, Mumbai   **June 2018- August 2018**
R&D Assistant
Tech Cryptors is an ISO 9001:2015 certified company leading in the field of technical training, workshops, internship courses of robotics and software coding languages.
- Developed a Convolution Neural Networks system using a Raspberry PI with camera and applied Machine Learning algorithms to detect various objects in its surroundings, as an incharge for Image Processing.
- Volunteered various workshops organized at different colleges including IIT Bombay. Taught students about IOT, Embedded Systems, Robotics and Game Development as an assistant in teaching.
- Organized workshops on Game development (Unity), IOT, Robotics etc.

ACADEMIC PROJECTS

Fire detection and smoke extinguisher
- Built an IOT based project that alerts and alarms using the blynk apk and provides the corresponding data to the cloud (i.e Thing-speak).
- Implemented the hardware using Arduino Microprocessor and ESP-8266 Module.
- Incorporated a sensor exhaust fan to clear the smoke and detect the intensity of fire using IR flame sensor.

Stock Price Prediction.
- Designed a training data set using the historical data of Infosys Company with a functionality to predict the stock price for the next three days.
- Implemented a data set with 5 variables and 5572 observations collected for training the data.

E-Voting System using Block-Chain (Ongoing Final year Project)
- Implemented Block chain using the concept of monetary transactions and secured the transactional process using SHA-256 Encryption.
- Gathered the transactional data and processed it further using the Postman Restful Service.
- Created a decentralized desktop application that counts vote casted in favour of a voter
- Employed facial recognition and adhaar authorization for security using Restful Services and Neural Networks and used block chain to hash all the votes casted.

SOFTWARE SKILLS

- Final Cut Pro and iMovie. | C, C++, Python, Java (basics), MySQL | MATLAB, Scilab. | Arduino Uno, Mega and Raspberry Pi v3. | HTML, CSS.

CERTIFICATION

- Algorithmic Toolbox- UC San Diego
- Machine Learning with Python- IBM
- Data Analysis with Python- IBM
- Data Visualization with Python- IBM
- Exploratory Data Analysis- Packt Publishing
- Spanish Basics- UC Davis

EXTRA-CURRICULAR ACTIVITIES

- Selected as the Registration Head for Computer Society of India (CSI ATHARVA) - Managed technical and event committee- a team of 10 juniors.
- Organized workshops on Java, IOT, Game development under CSI Atharva College of Engineering.
- Completed course on A+ (Hardware Technician) and N+ (Network technician) offered by NIIT.
- Completed a Course on Game development offered by techcryptors.
- Currently pursuing a course on Python and Machine Learning offered by Try Catch Institute.