STEVE JOSE MOTHA

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Developing and inventing for a better future. Passion driven inventor, shows extreme pleasure and enthusiasm in working with open minded team. Artificial Intelligence and Machine Learning enthusiast. Always ready to learn new technology and stay updated with present technology.

Qualifications

High School – Amity International School, Gurgaon
2015 - CBSE, CGPA: 9.2/10
Sr. Secondary (Non-Medical Stream)- Amity International School, Gurgaon
2017 - CBSE, Percentage: 84%
Graduation (B-Tech in Computer Science Engineering)- Amity School of Engineering and Technology, Amity University, Noida - 2017-2021 (currently pursuing) CGPA: 7.31/10

Experience

Loumus, Noida – Internship

- Worked on a live project by analyzing a large data set to derive KPIs using BI tool.
- Developed a program for Optical Character Recognition (OCR) using Google API – Tesseract.
- Developed a program to parse large set of resume into different categories based on business requirement using nltk library.

Projects

➢ **Indo-Russian Joint Research, 2020**

Currently working on a joint collaboration project between "Ministry of Science and Technology, Govt. of India" and "Russian Foundation for Basic Research". The project aims at developing a computation and communication efficient attribute based privacy preserving access control mechanism in public cloud (under the guidance of Dr. Manoj Kumar Shukla, PI of the project).

➢ **Self-Driving Car**

Built and tested an autonomous car on simulated environment. Concepts like AI, Sensor Fusion methods, Behavioral Cloning, Lane Detection, Object Detection, PID Controller, Robotics, OpenCV etc. are used.
On-going project - future plans include to coordinate with mechanical college project team members and link this technology with a car built from the ground up.

➢ **Life Line (Stop the Bleed Hackathon, 2019)**

Built a web-based health care application using flask framework for back-end and html, css, javascript for front-end. The application aims at connecting doctors and public/patients on a single platform to provide online health advises, first aid via video conference.

➢ **Flying Robin (IBM Call For Code 2019)**

Submitted a project that aims at helping disaster/flood rescue teams to look for stranded victims using drone cameras, the images captured are then processed to obtain the exact location coordinates of the victims. Artificial intelligence and machine learning concepts like object detection & image processing algorithms, IBM APIs (Watson Visual Recognition), IBM Cloud DB2, Flask framework etc. are the key concepts/tools used in this project.

➢ **AI Dancer**

Built an AI based project using deep fake concept that reads and learns dance images and finally creates its own set of new moves.

➢ **'Oppia' and 'HoneyNet' (Contributions to Open Source Organisation)**

Analyzed 'Oppia' & 'HoneyNet' websites to identify, report and fix potential bugs and errors related to html/css/javascript code thereby made a significant contribution.
Currently working to change the back-end database code from 'Redis' to 'Postgres'.

➢ **Web page development for 'Open House' event at University**

Designed and developed a web page for 'Open House' event using 'flask' framework for back-end and met deadlines.

Achievements

➢ **HUD System for Cars (Barco Geekathon, 2019)**

Successfully led a team of 5 & made it to the **top 10 teams** in 'Barco Geekathon, 2019'. Project aimed at providing transportation safety & security by developing a HUD system for private/personal cars and a mobile application for public transportation vehicles.

Extra-Curricular Activities

- Participated in a total of 6 MUNs.
- Been a member of Delegate Affairs team and Core team for AMIMUN 2019, Alias.
- Member of Speakers Committee and Coordinator for Confluence 2019 and 2020 respectively.
- Coordinated and conducted Linux classes at university under the guidance of respective faculty.
- Membership in PyDelhi and AWS Community.
- Shortlisted for Grand Hack MIT, Boston, USA.

Skills and Strength

- Portrays good communication, articulation and analytical skills.
- Adaptable to challenging environments.
- Ambitious & a strong self-starter.
- **Technical Skills:** Python, Java, C/C++, HTML, CSS, Javascript, JQuerry, DJango, Flask, Machine Learning, Automation, MYSQL, Robotics (Raspberry Pie), OpenCV, Deep Learning modules like Keras, TensorFlow etc.

Publications

'Market Analysis and Separation of Waste into bio-degradable and non-biodegradable using convolutional Neural Networks' – to be published on **20th March, 2020**

Patents

2 ideas under review.

Languages

English, Hindi, French, Malayalam

References

1. Dr. Priyaranjan Dass - Former Professor CSE – Amity University.
   Email. pranjan@gmail.com
2. Dr. Manoj Kumar Shukla – Associate Prof. Amity University.
   Email. mkshukla@amity.edu