

## SUMMARY

Highly driven Computer Science Engineer seeking opportunities to enhance my knowledge in Deep Learning and Natural Language Processing and use my adroitness as a developer to democratize AI and enable most of humanity to enjoy its fruits.

## EDUCATION

- **The Pennsylvania State University**  
*MS in CSE*  
August-2022 – Present
- **Fr. Conceicao Rodrigues College of Engineering**  
*BE in CE*  
June 2017 – June 2021  
*CGPA: 9.58*

## SKILLS

- **Programming Skills** in C, JavaScript, Python, HTML & CSS, TensorFlow, Keras, RASA, Flask, Selenium & ReactJS
- **Cloud Experience** in AWS & Owncloud
- **Database Experience** in MySQL, PostgreSQL, MongoDB & Neo4J
- **Microservice Experience** in Docker
- **Practical Experience** in Git, REST APIs, IoT, Deep Learning, Natural Language Processing & Image Processing
- **Research Skills** in technical writing, paper presentation & problem-solving

## CERTIFICATION

- **AI for Everyone & Deep Learning Specialization** by deeplearning.ai
- **Machine Learning A-Z: Hands-on Python & R In Data Science** by Udemy
- **Machine Learning and AI using Python** workshop conducted by ATS Learning Solution in association with Microsoft

## ACHIEVEMENTS

- 5th position at **India Singapore Hackathon 2019**
- 4th position at **AI Hackathon 2019**
- 1st position at **Smart India Hackathon 2019 software edition**
- Joe Sportsmanship Award at “**Association for Unmanned Vehicles Systems International Student Unmanned Aerial System Competition 2019**”
- Member of college **technical team Mavericks UAS**, working in the field of **Autonomous Unmanned Aerial Vehicles** from **June 2018 to June 2019**
- Conducted workshops on “**Introduction to Arduino**” and “**Deep Learning**” with Team Mavericks UAS at FR. CRCE

## EXPERIENCE

- AI Product Manager | Plexflo** **Oct 2021 – July 2022**
  - Led strategic and special projects in AI ranging from new product/ feature development to strategy creation for critical infrastructure industries
  - Developed SaaS cloud-product ‘EVIDENCE’ which runs Machine Learning at the Grid Edge based on real-time data from Smart Meters and Industrial IOTs
  - Developed an AI open-source library called Plexflo for Non-Intrusive Load Monitoring (NILM) using Timeseries Segmentation models for EV detection
  - Developed Rooftop Solar Assessment API by leveraging Mask R-CNN Rooftop Segmentation and Geo-Spatial Image Processing techniques
  - Responsible for the SOC2 compliance of the company
- Technical Consultant | Emesh Farm Technik** **Jan 21 – Sept 2021**
  - Advised the company to incorporate various AI technologies in the domain of Hydroponic Farming and Fodder Machines
  - Consulted in to develop of an Android App for the Fodder Machine
- AI Research Intern | Sync Energy Inc.** **July 2020 – Sept 2021**
  - Python-Flask-based Power Outage API deployed on AWS cloud for extracting power outages statistics depending on the Geo-Coordinates
  - Developed Python - RASA-based chatbots for the Power Outage API and Power System Simulation Software (GridLAB-D) respectively
  - Utilizing Deep Learning techniques to Identify Utility Poles with Crossarms and Estimate Their Locations from Google Street View Images
  - Published research paper on creating knowledge graphs from research papers related to wildfires, and their impacts on the Grid Infrastructure
- SDE Intern | Mumbai International Airport Ltd.** **June 2019 – July 2019**
  - Integration of Airside Safety Management Application {AngularJS and Microsoft SQL Server framework system} with Incident Monitoring System {Microsoft SQL Server database and .net system}
  - Integrated Python Payment module with a KIOSK and a PoS Terminal
  - Python-Shell Script for Establishing a communication link between the ATS and the Flight Feed Server

## PROJECTS

- Datacertus Inc.** **June 2021 – March 2022**
  - DataCertus is a fully managed no-code/low-code Machine Learning and Data Science service carefully designed for everyone. Deployed over AWS, it uses our drag-and-drop Intelliface™ and Machine Learning/Deep Learning-based workflows to forecast sales, profits, and customer demands without spending a fortune on ML
  - It is a citizen data science platform that accelerates data science workflows for the world’s largest problems without any code
- Medical Analytica using Blockchain** **March 2020 – May 2021**
  - A RASA-based therapy chat-bot for emotion analysis, storing and tracking Medical Records, tracking user health and analysis of the user’s behaviour by using BigchainDB as a decentralized database to develop an end-to-end system for successful storage, transfer and tracking of patient healthcare data
- Attentiveness and Attendance Detection Problem** **July 2019 – Dec 2019**
  - An end-to-end architectural system that incorporates a human pose estimator, emotion recognition and head gaze deep learning models into a customized neural network to generate a prediction of the engagement levels for the students. Engagement levels are then plotted onto a dynamic chart to monitor the lesson across lessons and help teachers to find the optimal time to call for breaks.

## PUBLICATIONS

- Vedant S., Jason D., Mayank S., Mahendra M., Dhananjay K. (2021) Leveraging Deep Learning and IoT for Monitoring COVID19 Safety Guidelines Within College Campus. In: Garg D., Wong K., Sarangapani J., Gupta S.K. (eds) Advanced Computing. IACC 2020. Communications in Computer and Information Science, vol 1367. Springer, Singapore. [https://doi.org/10.1007/978-981-16-0401-0\\_3](https://doi.org/10.1007/978-981-16-0401-0_3)
- M. Mehra, Vedant Sahai, P. Chowdhury and E. Dsouza, "Home Security System using IOT and AWS Cloud Services" 2019 International Conference on Advances in Computing, Communication and Control (ICAC3), Mumbai, India, 2019, pp. 1-6, DOI: 10.1109/ICAC347590.2019.9089839
- S. Kaur, V. Sahai, A. Jaiswal and S. Chanda, "Knowledge Mining for Defining Systemic Engineering Practices," 2020 4th International Conference on Electronics, Communication and Aerospace Technology (ICECA), Coimbatore, 2020, pp. 1346-1352, DOI: 10.1109/ICECA49313.2020.9297380.