VEDANT SAHAI

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OBJECTIVES

Highly driven Computer Science Engineer seeking full-time or intern opportunities anywhere in the USA where I can expedite my knowledge in Artificial Intelligence and Software Development, and use my adroitness as a developer to democratize AI for humanity to enjoy its fruits

EDUCATION

- **The Pennsylvania State University**
  MS in Computer Science & Engineering **GPA: 3.56**
  August-2022 – Present

- **Fr. Conceicao Rodrigues College of Engineering**
  BE in Computer Engineering **CGPA: 9.58**
  June 2017 – June 2021

SKILLS

- *Programming Skills* in C, JavaScript, Python, HTML/CSS, TensorFlow, PyTorch, RASA, Flask, FastAPI,& ReactJS
- *Cloud Experience* in AWS and Owncloud
- *Microservice Experience* in Docker
- *Database Experience* in MySQL, PostgreSQL, MongoDB & Neo4J
- *Practical Experience* in Git, REST APIs, IoT, Deep Learning, Natural Language Processing & Image Processing

EXPERIENCE

Teaching Assistant | Pennsylvania State University **Aug 2022 – Present**
- Course CMPSC 131: Programming and Computation I: Responsible for creating course contents, labs, assignments, quizzes, and practice problems

AI Product Manager | Plexflo **Oct 2021 – July 2022**
- Created a SaaS cloud product based on real-time smart meter data and industrial IoTs, EVidence, that uses Machine Learning at the Grid Edge
- Delivered a non-invasive load monitoring (NILM) AI open-source library called Plexflo based on Time-series Segmentation models.
- Developed Rooftop Solar Assessment API using Mask R-CNN Rooftop Segmentation and Geo-Spatial Image Processing techniques, ensuring SOC2 compliance.

Technical Consultant | Emesh Farm Technik **Jan 21 – Sept 2021**
- Assisted the company in incorporating AI technologies into Hydroponic Farming and Fodder Machines

AI Research Intern | Sync Energy Inc. **July 2020 – Sept 2021**
- AWS cloud-based Python-Flask Geo-Coordinates Power Outage API for extracting power outage statistics
- Python-based chatbots for Power Outage API and GridLAB-D Power System Simulation Software
- Identified and estimated the locations of utility poles with cross-arms using Google Street View images using Deep Learning techniques
- Generated knowledge graphs from research papers on wildfires and their effects on grid infrastructure

SDE Intern | Mumbai International Airport Ltd. **June 2019 – July 2019**
- Integration of the Airside Safety Management Application [AngularJS and Microsoft SQL Server framework system] with the Incident Monitoring System [Microsoft SQL Server database and .net system].
- Integrated Python Payment module with a KIOSK and a PoS Terminal.Python-Shell script to establish a communication link between the ATS and the Flight Feed Server

PROJECTS

Datacertus Inc. **June 2021 – March 2022**
- A full-service, low-code Machine Learning, and Data Science solution that is designed to meet the needs of every user. Our Machine Learning/Deep Learning-based workflows, deployed over AWS, use IntellifaceTM drag-and-drop interfaces

Leveraging Conversational AI for Secure Healthcare Assistance **March 2020 – May 2021**
- An end-to-end system for storing, transferring and tracking patient healthcare data. A RASA-based therapy chatbot is provided, leveraging the decentralized database for the analysis of emotion, storing and tracking medical records, monitoring health, and analyzing behavior.

Intelligent Classrooms **June 2020 – October 2021**
- An end-to-end architecture incorporating a method for estimating human poses, emotion recognition, and head gaze deep learning into a customized neural network Intelligent Classroom.

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
- 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.

ACHIEVEMENTS

- *5th Rank* at India Singapore Hackathon 2019
- *1st Rank* **at** Smart India Hackathon 2019- Software Edition
- *4th Rank* at India AI Hackathon 2019
- *Joe Sportsmanship Award* at "AUVSI-SUAS 2019"