

EDUCATION

The Pennsylvania State University <i>University Park, USA</i>	<i>May 2024</i>
<i>Master of Science in Computer Science</i>	Current GPA: <i>3.73/4.0</i>
Fr. Conceicao Rodrigues College of Engineer <i>Mumbai, India</i>	<i>May 2021</i>
<i>Bachelor of Engineering in Computer Engineering</i>	CGPA: <i>9.58/10.0</i>

SKILLS

Languages: Python, C, JavaScript, HTML/CSS & LATEX
Databases: MySQL, PostgreSQL, MongoDB & Neo4J
Frameworks: TensorFlow, PyTorch, XGBoost, NLTK, RASA, Flask, FastAPI, PyTest, Elasticsearch, Git & Docker
Practical Experience: AWS, REST, IoT, Deep Learning, Natural Language Processing & Computer Vision

EXPERIENCE

AI/ML Summer Associate JP Morgan & Chase Co., USA	<i>Jun 2023 – Aug 2023</i>
<ul style="list-style-type: none">Implemented a robust PyTest-based testing framework to comprehensively validate the Transaction Risk Modeling Team's entire Feature Engineering codebase.Designed a real-time recalibration system for the Transaction Risk ML model using the Online ML XGBoost algorithm, achieving a significant TDR and AUC gain of approx. 100-150 basis points.Developed a TabNet-based Deep Neural Network for the Transaction Risk model as a challenger with around 90% accuracy.	
AI Product Manager Plexflo, India	<i>Oct 2021 – July 2022</i>
<ul style="list-style-type: none">Pioneered the development of EVidence, an advanced P2P-SaaS software leveraging real-time smart meter data and industrial IoT devices, powered by plug-and-play AI algorithms with a latency of less than 90 milliseconds.Delivered a non-invasive load monitoring (NILM) AI open-source library called Plexflo based on a Time-series Segmentation model with an F1 of around 90%.	
AI Research Intern Sync Energy Inc., India	<i>July 2020 – Sept 2021</i>
<ul style="list-style-type: none">AWS Lambda-Python-based Geo-Coordinates Power Outage API and in-house RASA chatbot to enhance power outage statistics extraction and user interaction with GridLAB-D Simulation Software.Utilized Mask R-CNN to identify and estimate the locations of utility poles with cross-arms from Google Street View images with an accuracy of up to 83%, streamlining infrastructure assessment.Created Neo4J-based knowledge graphs from research papers on wildfires and their effects on grid infrastructure.	
SDE Intern Mumbai International Airport Ltd., India	<i>June 2019 – July 2019</i>
<ul style="list-style-type: none">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].Python-Shell script to establish a communication link between the ATS and the Flight Feed Server.	

PROJECTS

Datacertus	<i>June 2021 – March 2022</i>
<ul style="list-style-type: none">A full-service, no-code AWS-based Data Science platform designed to meet every B2B needs.Developed AI-based models and workflows, by using IntellifaceTM drag-and-drop interfaces to expedite the model training process.	
Leveraging Conversational AI for Secure Healthcare Assistance	<i>March 2020 – May 2021</i>
<ul style="list-style-type: none">An end-to-end Docker-NodeJS-MongoDB-based Software for patients' electronic healthcare records.RASA-based therapy chatbot, leveraging the BigchainDB blockchain database for the analysis of emotion, storing and tracking medical records, monitoring health, and analyzing behavior.	

PUBLICATIONS

- Vedant S., Jason D., Mayank S., Mahendra M., Dhananjay K. (2021) Leveraging Deep Learning and IoT for Monitoring COVID-19 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.

CO-CURRICULUM

- Teaching/Learning Assistant** at *The Pennsylvania State University* for courses CMPSC 131, 132, and 431W.
- Conducted workshops and developed drones as a Member of Team Mavericks UAV CRCE* from 2017-2018
- Winner** at *Smart India Hackathon 2019*
- Fourth Runner-Up** at *India Singapore Hackathon 2019*
- Third Runner-Up** at *India AI Hackathon 2019*