
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>3.78/4.0</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, Java, JavaScript, HTML/CSS & LATEX
Databases: MySQL, PostgreSQL, MongoDB & Neo4J
Frameworks: TensorFlow, PyTorch, XGBoost, NLTK, RASA, Flask, FastAPI, PyTest, Elasticsearch & Docker
Practical Experience: Docker, AWS, REST, IoT, Deep Learning, Natural Language Processing & Computer Vision

EXPERIENCE

Teaching/Learning Assistant <i>Pennsylvania State University, USA</i>	<i>Aug 2022 – Present</i>
<ul style="list-style-type: none">TA for Courses CMPSC 131 (Programming and Computation I: Fundamentals), 132 (Programming and Computation I: Data Structures) & LA for CMPSC 431W (Database Management Systems).	
AI/ML Summer Associate <i>JP Morgan & Chase Co., USA</i>	<i>Jun 2023 – Aug 2023</i>
<ul style="list-style-type: none">Created a comprehensive PyTest-based testing framework to validate the entire Feature Engineering codebase for the Transaction Risk Modeling Team.Implemented an Online Machine Learning approach using the XGBoost algorithm to design a dynamic system architecture for real-time recalibration of the PoS-based Card Transaction Risk ML model upon detecting data drift.Developed a TabNet-based Deep Neural Network for the Transaction Risk model as a challenger.	
AI Product Manager <i>Plexflo, India</i>	<i>Oct 2021 – July 2022</i>
<ul style="list-style-type: none">Pioneered the development of EVidence, a cutting-edge SaaS cloud product that harnesses real-time smart meter data and industrial IoTs, leveraging 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.	
AI Research Intern <i>Sync Energy Inc., India</i>	<i>July 2020 – Sept 2021</i>
<ul style="list-style-type: none">Developed an AWS cloud-based Python-Flask Geo-Coordinates Power Outage API and Python-based chatbots for seamless extraction of power outage statistics and improved user interaction with the GridLAB-D Simulation Software.Utilized Deep Learning techniques to identify and estimate the locations of utility poles with cross-arms from Google Street View images, streamlining infrastructure assessment.	
SDE Intern <i>Mumbai International Airport Ltd., India</i>	<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 Inc.	<i>June 2021 – March 2022</i>
<ul style="list-style-type: none">A full-service, low-code Machine Learning, and Data Science solution designed to meet every user's needs.Our Machine Learning/Deep Learning-based workflows, deployed over AWS, use IntellifaceTM drag-and-drop interfaces to expedite the data science/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 system for storing, transferring, and tracking patient healthcare data.A RASA-based therapy chatbot is provided, 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.

AWARDS

- Fourth Runner Up** at *India Singapore Hackathon 2019*
- Winner** at *Smart India Hackathon 2019*
- Third Runner Up** at *India AI Hackathon 2019*