

SAI SRI KOLANU

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EDUCATION

University at Buffalo – SUNY

Master of Science | Major: Artificial Intelligence

Coursework: Machine Learning, Deep Learning, Data Intensive Computing, Artificial Intelligence, Natural Language

Processing, Computer Vision, Reinforcement Learning, Pattern Recognition, Numerical Math

Jawaharlal Nehru Technological University

Bachelor of Engineering | Major: Civil Engineering

Buffalo, New York

08/2024 – 12/ 2025

Hyderabad, India

08/2018 – 08/2022

TECHNICAL SKILLS

- **Languages:** Python, MATLAB, C/C++, Java
- **Libraries/Frameworks:** NumPy, Pandas, Matplotlib, Scikit-Learn, TensorFlow, Keras, OpenCV, Langchain.
- **Tools & Platforms:** SQL, NoSQL, Hadoop, Spark, Git, AWS, Linux
- **Domains:** Machine Learning, Deep Learning, NLP, Large Language Models (LLMs), Computer Vision, Generative AI, Agentic AI.

EXPERIENCE

COGNIZANT TECHNOLOGY SOLUTIONS

Programmer Analyst

Hyderabad, India

08/2023 – 07/2024

- Engineered AI-driven predictive models utilizing Python and TensorFlow, achieving a 20% enhancement in prediction accuracy for real-world client use cases, which reduced critical errors.
- Orchestrated the creation of automated data pipelines using SQL and Python, which increased data quality scores by 15% and reduced data preprocessing duration by 30%.
- Leveraged scikit-learn to construct predictive models that forecasted equipment failure rates, leading to a 30% reduction in maintenance costs by optimizing resource allocation strategies.
- Deployed a suite of NLP-based tools that enabled the document management team to remove 95% of manual errors, and identified findings to fix the three biggest causes of errors.

COGNIZANT TECHNOLOGY SOLUTIONS

Programmer Analyst Trainee Intern

Hyderabad, India

01/2023 – 07/2023

- Pioneered fraud detection proof of concept utilizing supervised learning models, achieving 92% accuracy in identifying fraudulent transactions during testing and preventing potential financial losses.
- Created interactive dashboards and reports using Python and Matplotlib to communicate model outcomes.
- Optimized data workflows and collaborated with cross-functional teams to support model deployment in production environments.

CG ENTERPRISES PRIVATE LIMITED

Database Administrator (Part-time)

Hyderabad, India

12/2019 – 12/2022

- Architected and maintained data pipelines using Apache Kafka, orchestrating real-time data synchronization and cleansing, resulting in a 99.9% data accuracy rate and zero downtime incidents.
- Designed and maintained ETL workflows for real-time data syncing and cleansing, reducing data errors by 10%.

PROJECTS

Generative AI Chatbot -GPT-3, Langchain, CLI Interface

12/2024 – 01/2025

- Built a context-aware conversational AI chatbot using GPT-3 API with memory and multi-turn handling.
- Integrated TTS modules and error handling, enhancing usability and engagement.

Financial Fraud Detection- Machine Learning & Black Money Dataset

08/2024 – 12/2024

- Developed fraud detection model using ensemble ML techniques with 90% accuracy.
- Introduced unsupervised learning pipelines for automated data preprocessing and anomaly detection, processing 5000+ data points per day with 99.99% accuracy, ensuring reliable data for downstream analysis.

Social Distance Detection System- Computer Vision, OpenCV, TensorFlow

08/2023 – 12/2023

- Implemented a real-time alert system using YOLO and custom distance estimation models for crowd monitoring.
- Reduced system latency by 15% for quicker violation detection.