SHESHA SIMHA N M

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ACADEMIC DETAILS

YEAR	Degree/Exam	Institute	GPA/Marks
2021-2025	BE in Artificial intelligence and ML	Global Academy of Technology	8.1 / 10
2019-2021	Pre-University	S.G.P.T.A PU College	78.1 %
2019	CBSE (X)	Jnanodaya School	77.2 %

EXPERIENCE

AI-ML Engineer Intern – AquaAirX Autonomous System | *Mar 2025 – Present* | *Bangalore, India*

As an AI/ML Engineer Intern at AquaAirX, I worked on developing machine learning models for bathymetric survey report automation using sonar data, telemetry logs, and underwater imagery. My contributions included:

- ML Model Development – Trained Gemma-3-1B-IT and T5-based models to generate automated bathymetric reports.
- Data Processing & Synthetic Data Generation – Created synthetic TLOG (telemetry) and sonar (XTF-like) datasets to enhance model training.
- NLP & Text Generation – Fine-tuned language models to generate structured, professional survey reports dynamically.
- Image & Sensor Data Processing – Implemented OCR and AI-driven image analysis to extract insights from underwater images.
- Automation & Deployment – Developed an end-to-end pipeline to process raw survey data and generate reports autonomously.

AIML Intern – PRDC Infotech Pvt. Ltd. | *Oct 2024 – Nov 2024* | *Bangalore, India*

- Developed and deployed a hybrid AI model combining Random Forest, SVM, and CNN to automate real-time fault detection in power grid signals, reducing anomaly detection time significantly.
- Engineered end-to-end pipelines for proprietary grid data formats (.OSG, .BWF), performing data extraction, cleaning, and EDA using Python, NumPy, pandas, and visualization tools.
- Delivered a working prototype integrated into PRDC's monitoring system, contributing to the company's first AI/ML-powered fault analysis platform used by utility clients like BESCOM and Tata Power.

PROJECTS

- **Research paper on VEHICLE MAINTENANCE using PREDICTIVE MAINTENANCE (2023)**
  Technology used: Python, Artificial Intelligence, Machine Learning Algorithms such as K-Means Clustering, XGBoost, SVM, Random Forest.

- **Streamlit LangChain Chatbot for EDA Using LSTM (2024)**
  Developed a chatbot for exploratory data analysis (EDA) using LSTM, enabling users to input data in any format and interactively analyse it. The system provides insights, summaries, and visualizations through natural language queries.
  Technology used: Python, Streamlit, LangChain, Tensor Flow, Neural network, NLP, Long-short-term memory (LSTM)

- **Secure E-Voting System Using Ethereum Blockchain (2025)**
  Developed a secure e-voting system using blockchain, featuring a decentralized application (DApp) with smart contract-based voting. Integrated MetaMask for authentication and transactions, utilizing Hardhat for development and React for the frontend. Ensured transparency and tamper-proof voting through blockchain technology

SKILLS

- **Python Programming** – Advanced proficiency in scripting, data handling, and model development.
- **Machine Learning & AI** – Experienced with algorithms like SVM, CNN, Random Forest, NLP and model deployment.
- **Data Analysis** – Skilled in EDA, feature engineering, and time-series analysis using Pandas, NumPy, and Matplotlib.
- **Deep Learning Tools** – Hands-on with TensorFlow, Keras, and YOLOv8 for building and training neural networks.
- **Soft Skills:** Teamwork, Communication, Team Leadership, Team Building.

CERTIFICATION AND ACHIVEMENTS

- The Complete Python Bootcamp – UDEMY
- The Complete 2023 Web – Development Bootcamp – UDEMY
- The Language of DevOps: DevOps Principles & Practices – Infosys Springboard
- The Data Analyst Course: Complete Data Analyst Bootcamp – UDEMY

ACTIVITIES

- Founding Core Committee Member of SOCIFY -
  The social-media club of the Department of Artificial Intelligence and Machine Learning.
- National Service Scheme (NSS) Member -
  Participated in various community service activities through college, including health camps, blood donation drives, and environmental conservation programs.