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EDUCATION

Vellore Institute of Technology

Chennai, India

B.Tech. Computer Science and Engineering Spl. in Artificial Intelligence and Machine Learning, CGPA: **8.56**

2021 - 2025

Data Structures and Algorithms, DBMS, Operating System, Computer Networks, Machine Learning, Deep Learning

The Schram Academy

Chennai, India

Class 12, CBSE, Coursework: Physics, Chemistry, Mathematics, Computer Science Percentage: **92.2%**

2021

Class 10, CBSE, Percentage: **87.6%**

2019

EXPERIENCE

Systems Engineer | Tata Consultancy Services (TCS) | Bangalore

September 2025 – Present

Gen AI, Agentic AI, LLMs, Business Process Orchestration, RPA, Process Modelling, NLP, Transcription Processing, Azure, Python

- Participated in internal AI hackathons advancing to the **regional level**, developing a **Gen AI agentic business requirements generator** that extracts and structures requirements from unstructured sources including meeting transcriptions, documents, and other raw inputs using NLP and LLM-driven agents. Engineered and validated prompt strategies via test cases and qualitative reviews, **enhancing the practical usefulness and accuracy of LLM-driven code optimization and sustainability feedback.**
- Currently serving as an **AI Process Orchestrator**, managing end-to-end business process automation spanning document writing, database operations, and UI display layers using **process models** to coordinate intelligent workflows across systems.
- Leverages **RPA (Robotic Process Automation)** to extract structured data for business requirements from legacy and enterprise systems, integrating it into the AI-driven orchestration pipeline for improved process efficiency.

Gen AI Intern | Tata Consultancy Services (TCS) | Bangalore

March 2025 – April 2025

Python, LLMs, Prompt Engineering, API Integration (Groq/OpenRouter), Azure DevOps (CI/CD), Git Hooks (husky), VS Code Extension (JavaScript), CodeCarbon

- Led the development of "GreenCode AI," integrating LLMs via APIs to automate code sustainability analysis and optimization, **addressing the computing sector's significant energy footprint (~7% globally)** and reduce CPU, GPU and Memory Usage.
- Engineered and validated prompt strategies via test cases and qualitative reviews, **enhancing the practical usefulness and accuracy of LLM-driven code optimization and sustainability feedback.**
- Integrated the tool into developer workflows via a **VS Code extension (real-time feedback)** and automated **pre-commit quality gates (husky hooks)**, preventing inefficient code deployment.
- Utilized **Azure DevOps for CI/CD pipeline automation** (build/validation) and incorporated **experimental CodeCarbon emissions tracking** for Python code, enhancing tool reliability and providing environmental impact data.

AI Prompt Engineer (Freelancing) | Soul AI | Delaware, United States

Sept 2023 - December 2024

Reinforcement Learning from Human Feedback, Fine Tuning

- Improved user interaction by refining **more than 150 AI prompts**, which led to a significant improvement in the overall satisfaction scores collected from user feedback, providing actionable insights for future modifications.
- **Achieved promotion** from "Attempter" to "Reviewer" within six months for exceptional contributions to the Chihuahua Project, demonstrating significant expertise in AI prompt engineering and **enhancing project deliverables.**
- Extracted and analyzed data from images; **enhanced AI accuracy by 25%** in the Nightingale Multimodal Project, leading to more precise information framing and interpretation.

Data Science Intern | EVOSTARA VENTURES | Mumbai

Sept 2023 – Oct 2023

Data Science, Beautiful Soup, Python, Natural Language Processing (NLP)

- Led web scraping initiatives for market intelligence, including Predictive Modeling of Shared Bike Demand, Consumer Finance Risk Assessment, and SmartCVParser.
- Designed custom web scripts, **reducing collection time by 30%** and **enhancing data accuracy by 25%.**
- Assessed datasets to identify financial risk trends, **delivering actionable insights** that informed strategic decision making and prioritized mitigation approaches for the top three identified risks within a two-week timeframe.

PROJECTS

[Deepfake Detection using Frequency-Aware Lightweight Transformer \(LFAT\)](#)

Python, TensorFlow, Transformers, Computer Vision, MobileNetV2, FFT

- Prepared Designed and implemented a novel deep learning framework (LFAT) for high-accuracy deepfake detection by synergistically combining spatial (MobileNetV2) and frequency-domain (FFT, Custom Attention) analysis.
- Leveraged Transformer Encoder blocks with self-attention to capture long-range dependencies and global context, enhancing feature representation for improved robustness.
- Achieved state-of-the-art results, including **99.34% accuracy** on the challenging Celeb-DF dataset and **94.57%** on a diverse combined dataset, significantly outperforming baseline CNN, ResNet, and VGG16 models.
- Engineered a lightweight architecture (**5.6M parameters, 21.19MB**), demonstrating a compelling balance between high performance and computational efficiency (over 4x smaller than ResNet).

[Parkinson's Disease Prediction](#)

Python, Machine Learning(classification), Pandas, NumPy

- Prepared robust feature selection methodologies that led to improved predictive performance in the Parkinson’s disease diagnosis project, directly resulting in an increased validation dataset size **from 500 samples to over 1,000 samples.**
- Created comprehensive data validation protocols and feature selection frameworks that enhances the predictive performance of a Parkinson's disease diagnosis model, **achieving an increase in accuracy rate by 5% within two weeks.**

Drowsiness Driver Detection

Python, TensorFlow, Computer Vision, Convolutional Neural Networks (CNN), Keras

- Produced a real-time Drowsiness Detection system utilizing CNNs, TensorFlow/Keras, and OpenCV for face detection; **achieved 90% accuracy in identifying drowsy drivers** from video footage during testing phases.
- Implemented a face detection system using OpenCV, enhancing model accuracy by integrating advanced **data augmentation techniques** that produced a 30% increase in drowsiness detection performance during testing phases.

Stock Price Prediction

Python, Long Short-Term Memory (LSTM), TensorFlow, Pandas

- Analyzed LSTM models for multivariate, univariate, and multi-step time series forecasting of Nifty50 stock market data, achieving accurate predictions with metrics such as MAE, RMSE, and MAPE.
- Developed expertise in applying LSTM models for analyzing over 500 historical data points related to financial metrics; implemented innovative strategies leading to better accuracy in predictive modeling outcomes.

CERTIFICATIONS

Amazon Web Services:

- AWS Certified Cloud Practitioner
- AWS Certified Solutions Architect

Udemy:

- Power BI Data Analysis

SKILLS

Python, C, C++, Java, SQL, HTML, Data Analytics, AWS, Data Science, Data Visualization, Deep Learning, IOT, ETL Techniques, Power BI, TensorFlow, Computer Vision, LLMs, Prompt Engineering, API Integration, Azure DevOps, Git, Git Hooks, CI/CD