

## EDUCATION

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### Vellore Institute of Technology

Chennai, India

Computer Science and Engineering, GPA: 8.14/10

Aug 2020 – Aug 2024

- **Concentrations:** Artificial Intelligence & Machine Learning
- **Coursework:** Data Structures & Algorithms, Object-Oriented Programming, Deep Learning & Neural Networks, Business Intelligence, Computer Networks, Design of Algorithms, Database Management System, Statistics, Operating Systems, Software Engineering

## WORK EXPERIENCE

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### Cloud Box Technology

Hyderabad, India

AI Systems Engineer

Sept 2025 – Present

- Refined the AI backend for **Zuuz**, combining **MS Graph**, **gRPC APIs in Go**, and **Dockerized services** to deliver real-time model results.
- Designed a **scalable pipeline** that parses multi-source data and generates contextual summaries, enabling fast and actionable insights.

### Sphere

Hyderabad, India

AI Engineer

Aug 2024 – Sept 2025

- Developed an **AI-powered damage inspection chatbot** by fine-tuning **Qwen2.5-3B** on 10K+ vehicle damage reports, enabling natural language queries for damage analysis, trend identification, and detailed inspection summaries with 94.2% accuracy.
- Built a **computer vision pipeline** for VIN detection using **YOLOv8 with Oriented Bounding Box (OBB)** techniques, achieving **mAP50-75** of 92.3% and reducing processing time from 3s to 1.3s.
- Engineered an **automated email processing system** using **Phi-3mini** for order classification and **spaCy NER** for extracting customer details, reducing manual processing time by 85%.

### Forbes Advisor

Chennai, India

Data Analyst Intern

Jan 2024 – June 2024

- Implemented **GTM** on the credit card segment of Forbes Marketplace to track user engagement using **GA4**.
- Designed pipelines to stream **GA4** raw data to **BigQuery** on daily-basis for advanced data segmentation and cross-platform analysis, significantly improving data accessibility and analysis capabilities.
- Automated weekly, monthly, and quarterly e-commerce dashboards and reports with meaningful **KPI's** across all levels.

### HofinSoft

Chennai, India

Machine Learning Intern

Aug 2021 – Mar 2022

- Played key role in constructing **NLP pipeline** for user feedbacks, reducing processing time by 25% and improving model training efficiency through enhanced **feature extraction** and **data pre-processing**.
- Trained a high-accuracy **Bi-LSTM** NLP model (85%) to identify **Name-Entity relationships** among hardware components and modifiers, enhancing analysis precision.

## PROJECTS

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- **Meat Quality Assessment and Distribution:** Developed a real-time meat quality assessment **framework** with 98.45% accuracy using **MobileNetV1** on 1,896 images. Integrated **Explainable AI** for segregation, reduced waste with a mobile app, and enhanced sustainability by **distributing** moderately fresh meat to NGOs
- **Network-Based Intrusion Detection System (NIDS):** Designed an IDS using deep learning (**ANN**) and machine learning (**Random Forest**, **KNN**) to detect cyber-attacks with accuracies of 93.306%, 93.5%, and 93.8% respectively. Captured **DoS attack** packets with a custom **shell script** and **CICFlowMeter**, generating CSVs with 80+ features. Analyzed model performance, showing ANN's precision and recall of 93.0%, surpassing other models.

## SKILLS

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**Languages:** Python, Go, SQL, NoSQL, Java, C++, MATLAB, JavaScript, Bash

**AI/ML & LLM:** PyTorch, TensorFlow, LangGraph, Transformers, YOLO, OpenCV, LangChain, RAG, Fine-tuning

**Frameworks/Tools:** FastAPI, Flask, Streamlit, React.js, spaCy, BERT, Git, Docker, Jupyter, PostgreSQL, MongoDB

**Cloud/Deployment:** AWS, gRPC, Heroku, Hugging Face, REST APIs, Microservices, MLflow, Label Studio