

EXPERIENCE

AI/ML PROJECT INTERNSHIP | FEB 2025 – MAY 2025

- **AI-Driven Predictive Maintenance** – Developed machine learning models (RNN-LSTM, ANN, RandomForestClassifier) to predict failures and detect anomalies in defense systems using IoT sensor data.
- **Real-Time Data Processing** – Designed frameworks for analyzing high-frequency IoT sensor streams, enabling mission-critical diagnostics and system optimization.
- **Secure AI Solutions in Defense** – Gained hands-on experience in AI-driven defense applications, ensuring

ML INTERNSHIP | DEC 2024 – FEB 2025

- **AI-Powered Virtual Try-On System** – Developed a real-time garment fitting solution using machine learning models like DensePose, OpenPose, and SCHP for accurate human segmentation and clothing overlays.
- **Optimized Backend for E-Commerce** – Engineered a FastAPI-based backend to enhance API performance and ensure seamless integration with online shopping platforms.
- **Enhanced Visual Realism with AI** – Leveraged Stable Diffusion Inpainting and pre-trained AI models to refine

PROJECTS

STOCK PRICE PREDICTION USING LSTM NEURAL NETWORKS

SELF-LEARNING PROJECT | SEPT 2024 – NOV 2024

- – Developed an LSTM neural network for accurate stock market forecasting, improving decision-making for investors.
- **Data Optimization & Visualization** – Enhanced model performance through data preprocessing and created 3D visualizations for better trend analysis and financial insights.

AI BASED NUMBER PLATE DETECTION

SELF-LEARNING PROJECT | NOV 2023 – DEC 2023

- **AI-Powered Vehicle Detection & Recognition** – Developed a high-accuracy traffic monitoring system using Python, OpenCV, and YOLOv7 for real-time vehicle detection and number plate recognition.
- **Scalable & Efficient Deep Learning Models** – Implemented advanced computer vision techniques to ensure reliable, real-time processing and improve accuracy in traffic monitoring.

EDUCATION

COMPUTER ENGINEERING, CGPA: 8.41 / 10.0

SKILLS

- **PROGRAMMING LANGUAGE** - Python
 - **TOOLS & PLATFORMS**
 - **DEEP LEARNING** - Neural Networks, Object Detection, Transfer Learning, Transformer, YOLO
 - **MACHINE LEARNING** - k-means Clustering, KNN, SVM, Regression, Boosting, Decision Trees, RandomForestClassifier
 - **LIBRARIES**
- Seaborn, FastAPI, Gradio