

Arunesh Waran

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Education

Sri Shakthi Institute of Engineering and Technology, Coimbatore

B.Tech in Artificial Intelligence and Machine Learning

Sep 2023 – Sep 2027

CGPA: 8.1/10

Key Courses: Machine Learning, Natural Language Processing, Data Structures and Algorithms, Database Management Systems, Deep Learning, Python Programming

Technical Skills

Languages: Python, SQL, JavaScript

Frameworks: Flask, Scikit-learn, TensorFlow

Databases: MongoDB, MySQL

Technologies: Machine Learning, NLP, LLMs, Prompt Engineering, REST APIs, Git, Linux, Data Analysis

Projects

Aerial Vehicle Detection System

Developed an object-detection system capable of identifying and classifying aerial vehicles (like drones and aircraft) from real-time video feeds. Trained a deep-learning model using YOLO and OpenCV, and optimized it for high accuracy under varying lighting and altitude conditions.

Tools: Python, OpenCV, TensorFlow, YOLO

Semantic Book Recommender

Built a recommendation system that suggests books based on semantic similarity using NLP techniques like TF-IDF and cosine similarity.

Tools: Python, NLTK, Scikit-learn

Project NEER Dashboard

Designed an interactive dashboard to monitor water resource availability and quality across regions. Integrated sensor/IoT data and analytics to visualize trends, anomalies, and critical alerts, supporting informed decision-making for water management.

Tools: Python, Flask, MongoDB, Matplotlib

Certifications

- **Building LLMs using Prompt Engineering** — NVIDIA
- **Generative AI and Career Essentials** — Microsoft
- **AI Foundations Associate** - Oracle
- **Intro to Machine Learning** - Kaggle
- **Intermediate Machine Learning** - Kaggle
- **The MCP Course** - Hugging Face