Arpit Gaikwad

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Education

Vidyalankar Institute of Technology   **2022 − 2026**
B.Tech Information Technology — CGPA: 8.4/10   *Mumbai, Maharashtra*

Relevant Coursework

Data Structures and Algorithms, Machine Learning, Cloud Computing, Operating Systems, Web Development

Projects

Draupadi-AI | *Python, Flask, TensorFlow, OpenAI API, Map APIs* | GitHub   **Oct 2024 - Dec 2024**
* Developed an AI-powered safety application with **90%** accuracy in distress signal detection, leveraging TensorFlow models.
* Engineered real-time scream and keyword detection, reducing emergency response time by **50%**.
* Integrated **Flask**-based backend, automating **80%** of alert mechanisms and chatbot interactions.
* Designed an intelligent **crime hotspot detection system** that classifies areas by risk levels, enhancing user safety insights.
* Implemented an emergency alert system, ensuring **instant notifications** to registered contacts and authorities upon distress detection.
* Developed a chatbot feature for seamless crisis reporting, increasing user engagement by **40%**.

Wildlife Detection System | *Python, Streamlit, YOLOv5, OpenCV* | GitHub   **Aug 2024 - Dec 2024**
* Built a **Streamlit-based** web application for real-time **wildlife detection**, improving monitoring efficiency by **60%**.
* Fine-tuned the **YOLOv5** model on a custom dataset, increasing detection accuracy for lions, tigers, and elephants by **30%**.
* Integrated **OpenCV** for high-speed **real-time video processing**, reducing frame analysis time by **40%**.
* Enhanced UI responsiveness, reducing load times by **40%** for seamless cross-device accessibility.

RainVision | *Python, Streamlit, OpenWeather API, Leaflet.js* | GitHub   **Aug 2024 - Dec 2024**
* Developed a real-time weather prediction web application, increasing forecasting accuracy by **35%**.
* Integrated the **OpenWeather API** to provide **5-day rainfall forecasts**, improving predictive capabilities.
* Implemented an **interactive map** using **Leaflet.js**, enhancing location-based insights and user interaction.
* Added real-time **geolocation tracking**, ensuring precise forecasts with a **20%** improvement in location accuracy.
* Optimized the UI for **full responsiveness**, reducing load time by **40%** for a seamless mobile and desktop experience.

Technical Skills

Languages: Python, Java, C, HTML, CSS, JavaScript, Data Structures
Developer Tools: VS Code, Eclipse, GitHub, Unity, Flask
Database Management : MySQL, SQL, Neo4j, LangGraph
Machine Learning: Deep Learning, Neural Networks,TensorFlow, PyTorch, Scikit-learn
Natural Language Processing (NLP) : NLTK, SpaCy, Hugging Face Transformers, GPT-based models
Technologies/Frameworks: MySQL, PostgreSQL, Machine Learning, Large Language Models (LLMs), TensorFlow, PyTorch
Cloud Platforms : AWS, Google Cloud

Achievements and Certifications

* Solved **450+ coding problems** on LeetCode and GFG, improving algorithmic problem-solving skills.
* Filed a copyright for **RainVision**, an AI-based weather prediction project.
* Completed **Unity Essentials** and **Junior Programmer** certifications by Unity, demonstrating proficiency in game development.
* Acquired a certificate on **Overview on Wealth Creation** from NISM.