ROHAN BAGE

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EDUCATION

Vidyalankar Institute of Technology   **2022 - 2026**
B.Tech - CGPA - 9.49   *Mumbai, India*

Defence Services Jr. College   **2020 - 2022**
HSC - Science - Percentage - 89.5%   *Bhandara, India*

Yashodham Public School   **2020**
SSC - Percentage - 88%   *Malkapur,Buldhana, India*

COURSEWORK / SKILLS

- Data Structures & Algorithms
- Artificial Intelligence
- Machine Learning
- LLMs
- PyTorch
- Web Development
- Audio processing
- NLP
- Unity 3d Engine

PROJECTS

DraupadiAI ⬈ | Python, Librosa, Pyaudio, TensorFlow, ReactJS   **Oct 2024**

- About project **DraupadiAI**
  - * Implemented real-time **voice anomaly detection** using keywords like "help me" and scream recognition with **92% accuracy**.
  - * Enabled automatic alerts with **live GPS location and audio clips** to nearby Women Protection Community volunteers.
  - * Integrated safety modules like '**I Am Safe**' mode, crime hotspot mapping, and a crisis-response chatbot using the **LLaMA model**.
  - * Deployed continuous ML-based audio surveillance for background monitoring without device lag or performance drain.
  - * Added gesture recognition as a **non-verbal emergency trigger**, improving accessibility by **40%**.
  - * Demo video here

Wildlife Detection System ⬈ | Python, Streamlit, YOLOv5, OpenCV   **Aug 2024 – Dec 2024**

- About project **Wildlife Detection System**
  - * **Built a Streamlit-based web app** for real-time wildlife detection, boosting monitoring efficiency by **60%**.
  - * **Fine-tuned YOLOv5** on a custom dataset, improving detection accuracy of animals (lions, tigers, elephants) by **30%**.
  - * **Integrated OpenCV** for fast video processing, cutting frame analysis time by **40%**.
  - * **Optimized UI responsiveness**, reducing load time by **40%** across devices.

RainVision ⬈ | Python, Streamlit, OpenWeather API, Leaflet.js   **Aug 2024 – Dec 2024**

- About project **RainVision**
  - * **Developed a real-time weather prediction app** with **35% improved forecasting accuracy**.
  - * **Used OpenWeather API** to fetch and display **5-day rainfall forecasts**.
  - * **Implemented Leaflet.js** for interactive map-based visualization of forecasts.
  - * **Enabled geolocation tracking**, improving location accuracy by **20%**.
  - * **Reduced UI load time by 40%** for a seamless mobile and desktop experience.

Achievements and Certifications

- Solved **250+ coding problems** on LeetCode and GeeksforGeeks, with a **LeetCode Contest Rating of 1597**. *[View Profile]*

- Filed a copyright for **RainVision**, an AI-based weather prediction project. *[View Certificate]*

- Completed **Unity Essentials Pathway Certificate** and **Junior Programmer Certification**, showcasing core skills in Unity and game development. *[Essentials — Junior Programmer]*

- Acquired a certificate on **Overview on Wealth Creation** from NISM.

- Secured a place in the **Top 32** at **Mumbai Hacks**, the world's largest GenAI hackathon, which set a **Guinness World Record**.

TECHNICAL SKILLS

Languages: Python, Java, C, HTML, CSS, JavaScript, SQL
Developer Tools: VS Code, Eclipse, GitHub, Unity, Flask
Technologies/Frameworks: MySQL, PostgreSQL, Machine Learning, Large Language Models (LLMs), Natural Language Processing (NLP), Hugging Face, TensorFlow, PyTorch