HARSH OGALE

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Education

Veermata Jijabai Technological Institute, Matunga   Aug. 2023 – Present
B.Tech in Electronics and Telecommunication Engineering
Minor in Artificial Intelligence and Machine Learning

Ratanbai Walbai Junior College of Science, Mulund   June 2021 – June 2023
HSC: **82.17%** — MHTCET: **99.60%ile** — JEE Mains: **98.00%ile**

Relevant Coursework

- Data Structures & Algorithms
- Computer Networks
- Signals and Systems
- Digital Logic Design
- Operating Systems
- Data Analysis

Projects

VJTI QUADSPACE ⌂ — *Node, Express, Postman, MongoDB*   Nov. 2024 – Jan. 2025
- Designed and developed a dynamic **college social media platform**, significantly enhancing student engagement and collaboration.
- Built a fast, scalable **RESTful backend** using **Node.js** and **Express.js** for efficient data handling.
- Implemented features such as **post feed**, **AMA section**, **1v1 messaging**, **noticeboard**, and **profile pages**.
- Collaborated with frontend developers using **React.js** to align design elements, manage data flow, and ensure a responsive user interface.

AI-Trip Planner ⌂ — *Node, Express, HTML, CSS*   Jan. 2025 – Mar. 2025
- Built an **AI-powered Trip Planner** to generate personalized, efficient, and engaging travel itineraries with recommendations and visuals.
- Developed a **responsive UI** with reusable components like **Home**, **Details**, and **TripResult** for seamless navigation.
- Enhanced **card-based layout** for better readability, visual appeal, and intuitive user experience.
- Integrated with APIs such as **Gemini Pro** for itinerary generation, **Unsplash** for dynamic images, and **OpenWeather** for weather data.

Spam Mail Detection ⌂ — *Python, NLTK, Scikit-learn*   Apr. 2025
- Developed a **Spam Mail Detector** using **Python**, **NLP**, and **machine learning** techniques in Google Colab.
- Implemented **text preprocessing** including stopword removal, tokenization, lemmatization, and **TF-IDF** feature extraction.
- Trained and evaluated multiple models, achieving high **accuracy**, **precision**, **recall**, and **F1-score**.
- Visualized **spam vs ham** message distributions and model performance metrics using **matplotlib** and **seaborn** for better interpretability.

Technical Skills

Languages: Python, C/C++, JavaScript, HTML/CSS

Developer Tools: Linux, Git/GitHub, VS Code, Google Colab

Technologies/Frameworks: Node.js, Express.js, SQL, MongoDb

Extracurricular

- **Eklavya Mentorship Program @ SRAVJTI**
  Completed a competitive mentorship program focused on Robotics.

- **Enthusia VJTI : Event Coordinator**
  Coordinated and managed events for Enthusia, the annual sports fest of VJTI, ensuring smooth execution and high participant engagement.

- **Hacktoberfest 2024**
  Contributed to open-source projects and collaborative development.