Raj M. Patel

Phone: +91 8160840336 | Email:raj.vankaner@gmail.com
LinkedIn: www.linkedin.com/in/patel-raj-mahendrabhai
GitHub: https://github.com/raj28205
Web-Sit: https://raj28205.github.io/Raj-Patel/
Address: 104,Rudra Avenue Apartment,Gandhi Road,Bardoli

Professional Summary

Passionate Data Scientist and AI/ML enthusiast with a strong foundation in Python and SQL. Experienced in Exploratory Data Analysis (EDA), Generative AI, and building intelligent systems. I also have web development skills using HTML, CSS, JavaScript, and PHP, enabling me to build full-stack data-driven applications. I thrive at the intersection of data and technology, turning insights into impactful solutions.

Education

- **R. N. G. Patel Institute of Technology (2022 – Present)**
  Bachelor of Engineering in Computer Science and Engineering
  Current CGPA: 8.35/10.0 (Expected Graduation: 2026)

- **Shree M.B. Vamdot School (2022)**
  Gujarat Secondary and Higher Secondary Education Board

- **Shree M.B. Vamdot School (2020)**
  Central Board of Secondary Education

Projects

- ### EV Charging Station Location Optimizer

  Description:A machine learning-powered web application that helps identify optimal locations for electric vehicle (EV) charging stations. Users upload CSV data containing location-specific features (e.g., time, demand, day of week), and the app processes this data through a trained model to predict whether each location is optimal for installing a charging station.

  Tech Stack: The app uses Python with scikit-learn, pandas, and NumPy to predict optimal EV charging spots from User Inputs.

- ### Dynamic School Website Portal for Student and Administrative Interaction

  Description: This project is a dynamic school web portal designed to manage and present key academic and administrative information online. It features student registration and login, feedback submission, and displays activities, results, and staff info. The site includes an admin panel, image gallery for events, and is styled with custom CSS. Built using PHP for server-side functionality, it also includes a PowerPoint report as part of the documentation.

  Tech Stack: The project uses HTML, CSS, and PHP with basic session handling, likely connects to MySQL, and includes images and a PowerPoint for documentation.

- ### Smart Irrigation

  Description: The Smart Irrigation System is an IoT-based solution that automates watering processes based on real-time soil moisture levels, temperature, and environmental conditions. Built using an Arduino Uno and sensors (such as soil moisture, DHT11), it intelligently controls water flow to optimize irrigation. The system ensures efficient water use by activating only when needed and can optionally integrate with cloud platforms for remote monitoring and data logging.

  Tech Stack: Built using Raspberry Pi and Arduino, this system monitors soil moisture and controls water flow automatically or manually through a PHP and JavaScript-based web interface.

- ### Check Safety in Industry

  Description: This project is a web-based safety assessment tool designed to evaluate potential hazards in industrial environments. Users can input details such as the process step, source of hazard, injury type, and hazard level. Using rule-based logic implemented in JavaScript, the application analyzes the data and provides real-time feedback on whether the condition is safe or unsafe. The interface is simple, user-friendly, and requires no technical background.

  Tech Stack: The frontend is developed using HTML, CSS, and JavaScript with a modern UI. The core decision logic is implemented using rule-based evaluation in JavaScript.

Technical Skills

- **Programming Languages:** Python, Java, JavaScript, C.
- **Databases:** MySQL
- **Machine Learning and Deep Learning:** Scikit-Learn, TensorFlow
- **Data Analytics & Visualization:** Pandas, Matplotlib, Seaborn, Tableau
- **Frontend Development:** CSS,HTML
- **Backend Development:** PHP,JavaScript

Soft Skills

- **Problem-Solving Skill**
- **Communication Skill**
- **Continuous Learning**
- **Teamwork**
- **Adaptability**