

# Raj Patel

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Web-Sit: <https://raj28205.github.io/Raj-Patel/>

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## 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.

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## 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
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## Projects

- **EV Charging Station Location Optimizer**  
**Description:** A machine learning web app that predicts optimal EV charging station locations from user-uploaded data with location-specific features.  
**Tech Stack:** The app uses Python with scikit-learn, pandas, and NumPy
- **Check Safety in Industry**  
**Description:**A web-based industrial safety assessment tool using JavaScript rule-based logic to evaluate hazards from user inputs and provide real-time safe/unsafe feedback via a simple, user-friendly interface.  
**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.
- **Dynamic School Website Portal for Student and Administrative Interaction**  
**Description:** A dynamic school web portal built with PHP featuring student registration/login, feedback, activity and results display, staff info, admin panel, event image gallery, and styled with custom CSS. Includes a PowerPoint report.  
**Tech Stack:** The project uses HTML, CSS, and PHP with basic session handling, likely connects to MySQL.

- **Handwritten Character Recognition using Machine Learning**

**Description:** A machine learning project using Jupyter notebook to recognize and classify handwritten characters with algorithms like CNN, enabling digitization of handwritten documents.

**Tech Stack:** The project uses Python with libraries like TensorFlow and Scikit-learn in Jupyter Notebook, and likely applies CNN.

- **Smart Irrigation**

**Description:** An IoT-based Smart Irrigation System using Arduino and sensors to automate watering by monitoring soil moisture and environmental conditions, optimizing water use with optional cloud integration for remote monitoring.

**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.

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## Technical Skills

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- **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:** Bootstrap, CSS, HTML
- **Backend Development:** PHP, JavaScript

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## Soft Skills

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- **Problem-Solving Skill**
- **Communication Skill**
- **Teaching Skills**
- **Continuous Learning**