

Patel Jay Dilipbhai

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Professional Summary

Motivated and performance-driven B.Tech IT student with a strong foundation in Python, Java, MERN Stack, and growing expertise in AI/ML. Hands-on experience in full-stack development and machine learning project implementation. Quick learner with strong analytical skills and a passion for solving real-world problems using data and technology.

Skills

- **Languages:** Python, Java, C++, C, JavaScript, SQL
- **Web Development:** React.js, Node.js, Express.js, MongoDB, HTML, CSS, Redux, REST APIs, JWT, Bootstrap, Tailwind CSS
- **AI/ML:** Scikit-learn, Pandas, NumPy, Regression, Random Forest, Model Evaluation
- **Tools:** Git, GitHub, VS Code, Postman, Render, Netlify, Versal, Docker

Experience

Node.js Development Intern

(June-July 2025)

Webito Infotech, Surat, Gujarat

- Built and deployed secure RESTful APIs using Node.js, Express.js, and MongoDB with JWT-based authentication.
- Integrated Hugging Face and Gemini AI APIs, managed file uploads with Cloudinary, and used Postman for testing.
- Collaborated in a Git-based team environment and deployed full-stack apps on Render.
- Gained exposure to Docker for backend containerization and microservice setup.

Education

B.Tech in Information Technology

(2022 - Present)

Chhotubhai Gopalbhai Patel Institute of Technology,
Uka Tarsadia University, Surat, Gujarat, India
CGPA: 9.23 (Till 6th Semester)

12th with PCM (GSHEB)

(March 2022)

Sanskar Vidhyalay, Kim, Surat, Gujarat, India
Percentage: 73%

10th (GSHEB)

(March 2020)

Shree Kalyan Vidhyalay, Kalyanpura, Kadi, Gujarat, India
Percentage: 77%

Projects

Virtual AI Assistant [Link](#)

- **Tech stack:** React.js, Node.js, Express.js, MongoDB, Tailwind CSS, Google Gemini API, Web Speech API
- Developed a voice-enabled AI assistant during internship using MERN stack and Gemini API.
- Integrated real-time speech recognition and text-to-speech for natural voice interaction.
- Customizable UI with support for user-defined assistant name, avatar, and branding.

Loan Default Prediction [Link](#)

- **Tech Stack:** Python, Scikit-learn, Random Forest, Machine Learning
- Trained a model using Random Forest to predict loan defaults.
- Preprocessed data with encoding and scaling techniques.

- Evaluated model using F1-score, precision, recall, and ROC-AUC.

Task Manager Web App [Link](#)

- **Tech Stack:** Node.js, Express.js, EJS, MongoDB, JWT, CSS
- Built a full-stack task manager with JWT authentication, MongoDB, and EJS templating.
- Integrated AI-based task categorization using Hugging Face zero-shot model.
- Deployed on Render and tested RESTful APIs using Postman during internship

Inventory Management System

- **Tech Stack:** MERN Stack, Redux, JWT
- Designed and developed a role-based inventory system for raw material, production, and orders.
- Implemented secure login, dynamic routing, and API-based CRUD operations.

Achievements

- **Consistently ranked in the top 10%** academically in the IT branch; earned admission through the **Tuition Fee Waiver (TFW)** scheme for outstanding academic performance.
- **Participated in Smart India Hackathon**, one of India's premier national-level innovation challenges.
- **Participated in TATTVAHACK 2K25**, a hackathon organized by **CGPIT in collaboration with August Infotech**.
- Secured **2nd Runner-Up** in the **"Fastest Coder First"** event at **SciClone 2K24**, hosted by CGPIT, UTU.

Certifications

Generative AI Exchange Program – Hack2Skill (*Powered by Google Cloud – 2025*)

- Gained hands-on experience in prompt engineering, Gemini API, Vertex AI, multimodal AI, and Retrieval-Augmented Generation (RAG).
- Completed official skill badges including Prompt Design in Vertex AI, Gemini & Streamlit app development, and rich document inspection using Gemini Multimodality.

Placement Preparation – Apna College (**Sigma 4.0**) (*Pursuing*)

- Covered Data Structures & Algorithms using Java and core problem-solving techniques.
- Learned full stack development including HTML, CSS, JavaScript, React, Node.js, and MongoDB.
- Gained hands-on experience through projects, coding challenges, and interview preparation.

Python Engineer – MIMO e-Learning

- Covered Python essentials and core programming concepts.
- Learned functional and object-oriented programming paradigms.
- Gained experience in building scripts and working with modules & APIs.