

VIJAI PATANGE

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TECHNICAL SKILLS

Programming: Advanced Python, Java, JavaScript

Core CS Concepts: DSA, Object-Oriented Programming, Operating Systems, DBMS, Computer Networking

Software Development: REST APIs, Backend Development, Scalable Systems, MVC Architecture

Web Technologies: Django, Flask, HTML, CSS, Bootstrap

Databases: SQL (SQLite, PostgreSQL), NoSQL (MongoDB)

Machine Learning & AI: Supervised & Unsupervised Learning, Model Evaluation, NLP, Retrieval-Augmented Generation (RAG), Embeddings & Vector Search (FAISS), LLM API Integration

Tools & Practices: System Design, Git, GitHub, Debugging, API Design, Secure Coding Practices

PROJECTS

Conference AI | *GitHub* | Django, PostgreSQL (pgvector), Celery, Redis, InsightFace Jan 2026 – March 2026

- Built an AI-powered networking platform using Django REST Framework and pgvector to identify and track attendees from conference images.
- Implemented face recognition with InsightFace embeddings and cosine similarity search, achieving approximately 50ms matching for 100+ attendees.
- Designed a scalable asynchronous processing pipeline using Celery & Redis for large-scale image processing.

Incois | *GitHub* | Python, Django, FastAPI, React June 2025 – Aug 2025

- Developed a hybrid AI system that combines satellite data (NOAA, Copernicus, INSAT) and multilingual social signals to detect ocean hazards.
- Built NLP pipelines to extract early distress indicators from real-time social media and sensor feeds.
- Engineered a real-time alert platform with geospatial visualization and automated hazard notifications.

Ask Your PDF | *GitHub* | Python, Streamlit, LangChain, Google Gemini July 2025 – Feb 2026

- Built an AI-powered PDF question answering system using Retrieval-Augmented Generation (RAG).
- Designed hierarchical indexing for efficient document retrieval without relying on a vector database.
- Developed an interactive Streamlit interface for real-time querying and context-aware responses.

EDUCATION

Bachelor of Computer Science

Parul University, Gujarat

2023 – 2027

Bachelor of Science – Data Science

IIT Madras

2023 – 2027

ACHIEVEMENTS

- Codeforces: **1215** max rating (Global Rank 2932 in Codeforces Round 1043)
- CodeChef: **1600+** max rating (Global Rank 2663 in Starters 196)
- LeetCode: **1787** rating (Global Rank 1973 in Weekly Contest 478)
- **Diamond Badge Certificate** for being Smart Coder in SmartInterviews DSA Program
- Represented college in **Smart India Hackathon 2025** for the *Incois: Ocean Hazard Warning System* project
- Selected for the National Level in the **HCL GUVI Hackathon** held at the *AI India Impact Summit*
- Finalist - **PU Code 3.0 Hackathon**, Parul University