

# P VIJAI

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## TECHNICAL SKILLS

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**Programming Languages:** 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:** 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

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**AI-Powered Job Hunting Platform with Browser Extension** [link] Dec 2025 – Jan 2026

- Designed and implemented **backend services in Python & Django** to process resumes and match jobs using **NLP-based keyword extraction**.
- Built **RESTful APIs** enabling real-time resume–job compatibility scoring with low-latency responses.
- Developed a **browser extension** that evaluates job suitability dynamically, improving candidate screening efficiency.
- Applied **modular OOP design** and clean code practices to ensure scalability and maintainability.

**AI-Powered Ocean Hazard Early Warning System**[link] / *Python, Django* Jun 2025 – AUG 2025

- **Built a hybrid AI system** fusing satellite/remote-sensing data (NOAA, Copernicus, INSAT) with multilingual crowd-sourced signals (Twitter/X, Reddit, news) to detect ocean hazards with **90%+ accuracy**.
- **Developed multilingual NLP pipelines** to identify early distress indicators and validate insights using real-time feeds from **buoys, tide gauges, and environmental sensors**.
- **Engineered a real-time decision-support platform** using **Django, FastAPI, and React**, integrating geo-maps, automated alerts, and multi-source hazard intelligence for rapid response.

**Ask Your PDF** [link] / *Python, Streamlit, LangChain, FAISS, Google Gemini* July 2025 – Aug 2025

- Built an AI-powered PDF Question Answering system using Retrieval-Augmented Generation (**RAG**) architecture.
- Implemented semantic search using **GoogleGenerativeAIEmbeddings** and **FAISS** vector database for efficient similarity-based retrieval.
- Developed an end-to-end pipeline including PDF parsing, intelligent text chunking, embedding generation, and LLM-based answer synthesis.
- Designed an interactive **Streamlit** interface enabling real-time querying of uploaded PDFs with context-aware responses.

## EDUCATION

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**Bachelor of Computer Science**, Parul University, Gujarat (2023 – 2027)

**Bachelor of Science – Data Science**, IIT Madras (2023 – 2027)

## ACHIEVEMENTS

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**Codeforces** [link]: 1215 max. Rated (Global Rank 2932 in Codeforces Round 1043)

**Codechef** [link]: 1447 rated max (Global Rank 2663 in Starters 196)

**Leetcode** [link]: 1787 rated (Global Rank 1973 in Weekly Contest 478)

*Diamond Badge* Certificate of being Smart Coder in **SmartInterviews** DSA Program [link]

Represented our College in **SIH- 2025** for the above project.