

PRATHAM JOSHI

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Indore, Madhya Pradesh - 452012, India

SUMMARY

Motivated computer science student with strong foundations in machine learning, software development, and problem-solving, eager to contribute to impactful projects and grow through real-world applications. Skilled in Python, AI/ML, and building data-driven solutions with a focus on reliability and performance.

WORK EXPERIENCE

- Wedecode.io**  Present
AI & Backend Engineer Indore, India
 - Generated high-fidelity synthetic datasets using LLMs to improve AI agent test coverage and reliability across SaaS systems, reducing evaluation gaps in production-like scenarios.
 - Developing RL infrastructure for AI agent evaluation and reinforcement-based optimization across production workflows.
- THDC India Limited**  Sept 2025 – Present
Backend & Machine Learning Intern Indore, India
 - Architected document verification pipeline using OCR (Tesseract, EasyOCR) and NLP models achieving 90% data extraction accuracy.
 - Implemented blockchain-based authentication using SHA-256 hashing and distributed ledger for immutable verification.
- Valency Renewable Solutions**  May 2025 – July 2025
Artificial Intelligence Intern Indore, India
 - Engineered AI framework using LangChain and vector databases (FaissDB) for lead generation, processing 8K+ records with 35% efficiency gain.
 - Developed conversational AI chatbot leveraging transformer models (BERT, GPT APIs) and RAG architecture achieving 87% intent classification accuracy.

EDUCATION

- Institute of Engineering and Science, IPS Academy (Affiliated with RGPV University)** Nov 2022 – June 2026
B.Tech in Computer Science Engineering Indore, India
 - Honors in Artificial Intelligence and Machine Learning (2024 – 2026)
 - Current CGPA: **9.5/10.00**

PROJECTS

 [ALL PROJECTS](#)

- Recall: AI-Powered Personal Knowledge Management Platform** Jan 2026 – April 2026 
React 18, TypeScript, Supabase, pgvector, Google Gemini 2.5, GPT-5, KaTeX, Deno
 - Built semantic knowledge base using pgvector embeddings and RAG architecture enabling natural language retrieval across six content types with a conversational Memory Assistant chatbot.
 - Developed AI Math Notes canvas with real-time handwritten expression recognition and step-by-step solving, plus an automated presentation generator producing themed slide decks from a single topic input.
- Anuvaad AI: Multilingual Dubbing & Podcast Studio** July 2025 – Dec 2025 
Python, Flask, Streamlit, Whisper ASR, Coqui-TTS, ElevenLabs, LangChain
 - Developed AI-powered dubbing system using Whisper ASR, neural translation APIs, and Coqui-TTS voice cloning supporting 50+ languages.
 - Implemented article-to-podcast converter with web scraping (Selenium, BeautifulSoup) and TTS generation pipeline.
- AcadBoost: Academic Profile Management with AI Analytics** Jan 2025 – June 2025 
Python, Streamlit, Gemini API, MongoDB, SQLite, LaTeX, LangChain
 - Designed role-based platform for academic records, certificate storage, and automated LaTeX resume generation with 94% ATS compliance.
 - Integrated AI-powered resume analyzer using Gemini API and prompt engineering for ATS optimization.

SKILLS

- Languages** Python, C++, C, SQL
- ML & AI** TensorFlow, PyTorch, Scikit-learn, Keras, NLP, Computer Vision, LLMs
- Frameworks** Flask, Django, FastAPI, Streamlit, LangChain, Hugging Face
- Web Development** HTML, CSS, Bootstrap, REST APIs
- Databases** MySQL, PostgreSQL, MongoDB, SQLite
- Cloud & DevOps** Google Cloud, Git, GitHub
- Tools** Pandas, NumPy, Selenium, Power BI, BERT

HONORS AND AWARDS

- Smart India Hackathon (SIH)** 2023-25 
Government of India
 - Finalist (December 2025):** Selected as National Finalist under the Ministry of Home Affairs for Smart India Hackathon 2025.
 - Finalist (December 2024):** National finalist among 15K+ teams with an AI-driven cybersecurity solution.
 - Winner (December 2023):** 1st place among 250+ teams with a blockchain-based product verification system.