

Om Patil

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EDUCATION

- Indian Institute of Information Technology, Lucknow** Lucknow, India — Aug 2025 - July 2029
 - Bachelor of Technology - Computer Science; SGPA: 8.55/10*
 - Courses: Operating Systems, Data Structures, Databases, System Programming and Scripting, Computer Organisation and Architecture, Computer Networking*

SKILLS SUMMARY

- Languages:** C, C++, Java, Python, JavaScript, Solidity, SQL
- Machine Learning:** Scikit-learn, NumPy, Pandas, Matplotlib, Seaborn, OpenCV, Hugging Face, FAISS, ChromaDB, Sentence-Transformers
- Frameworks:** React, Node.js, Express.js, Spring Boot, Bootstrap, Tailwind CSS, FastAPI, TensorFlow, PyTorch
- APIs & AI Services:** Google Gemini API, Claude API, JWT, Multer, Mongoose
- Tools:** Git, Metamask, Jupyter Notebook
- Database:** MongoDB, MySQL
- Platforms:** Linux, Web, Windows

PROJECTS

- SolveHive** GitHub — Live
 - MongoDB, Express.js, React, Node.js, JWT, Mongoose, Multer*
 - Built a full-stack MERN application supporting category-based question posting, multi-format answers (text, image, video), and a reputation/badge system to reward helpful users
 - Designed a RESTful API with Express and Mongoose, including JWT-based authentication and protected routes for creating, answering, and resolving queries
 - Implemented a duplicate-detection feature using MongoDB text search that surfaces existing solved queries before a new one is posted, reducing redundant content
- Buzziit** GitHub — Live
 - React, FastAPI, Google Gemini API, Sentence-Transformers, ChromaDB, Tailwind CSS*
 - Built a full-stack RAG-based conversational recommendation system, combining Google Gemini 1.5 Flash for generation with sentence-transformer embeddings and a local ChromaDB vector store for semantic retrieval, grounding LLM responses in real restaurant data instead of the model's own unreliable knowledge
 - Designed a hybrid recommendation engine layering semantic search with structured filters (budget, diet type, distance from campus, dish-specific search, and mood-based context like "study" or "late-night")
 - Built a FastAPI backend exposing REST endpoints for the RAG chat pipeline, filtered restaurant search, and individual restaurant lookups
- PlaceIQ – AI Placement Predictor & Mentor** GitHub
 - React, FastAPI, Claude API, Scikit-learn, FAISS, Sentence-Transformers, PyMuPDF*
 - Built a full-stack AI system combining conversational profiling (LLM), predictive scoring (ML), and retrieval-augmented generation (RAG) into a single placement-readiness pipeline
 - Designed a conversational AI intake flow using the Claude API that extracts structured student profile data (CGPA, projects, internships, communication, open-source contributions) from free-form chat, without a traditional form
 - Trained a Ridge Regression model (scikit-learn) on engineered profile features to predict a 0–100 placement readiness score

ACHIEVEMENTS

- Winner (Rank 1), Fossology — the flagship coding event of GDG's FOSS Wing, recognized for the cleanest code and the best pull requests
- Winner (Rank 1), GDG RAGathon
- JEE Mains – 99.20 Percentile
- IISER IAT – All India Rank 24*
- INChO (Indian National Chemistry Olympiad) – State Level, Top 1% (State Topper)
- JEE Advanced – All India Rank 1662*

VOLUNTEER EXPERIENCE

- AfterDark – Photography Club, IIIT Lucknow** Lucknow, India
 - Volunteer*
- Eifer – Sports Club, IIIT Lucknow** Lucknow, India
 - Volunteer*