

Ranjeet Kulkarni

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EDUCATION

- B.Tech. in Information Technology, IIIT Allahabad** **Grade:** 8.75 Aug 2023–Present

 - **Coursework:** Data Structures & Algorithms (10/10) · Object-Oriented Programming (10/10) · Operating Systems (10/10) · Database Systems (SQL) (9/10) · Computer Networks (9/10) · Probability · Linear Algebra (9/10) · Discrete Math

TECHNICAL SKILLS

- **Programming Languages:** C/C++, Python, JavaScript (ES6+), Java, SQL
 - **Web & API Development:** Flask, FastAPI, Node.js; RESTful API design; HTML5, CSS3, JavaScript
 - **Databases & Storage:** PostgreSQL (Supabase), MySQL, MongoDB, Neo4j; SQLAlchemy ORM
 - **Machine Learning & Data:** scikit-learn, TensorFlow, PyTorch, pandas, FAISS; Anaconda Navigator; embeddings, CNNs, NLP
 - **Generative AI & Tooling:** LangChain, HuggingFace Transformers, GANs
 - **DevOps & Collaboration:** Git, GitHub, Docker, CI/CD (Render, Vercel), Postman, Figma

PROJECTS

- 1. Knowledge-Graph-Backed Clinical Trial Recommender** Backend | View K.G.

 - **Problem:** Semantic grouping & retrieval of 450000+ unstructured clinical studies for strategic insights.
 - **Action:** Performed NER with PubMedBERT; embedded records using Stella 1.5B; applied FAISS for deduplication (cosine 0.857); built a Neo4j GDS knowledge graph and learned trans2vec embeddings for vector-based similarity search.
 - **Impact:** Reduced duplicates by 25% and served top-10 explainable trial suggestions in < 2s via Flask APIs;

Tech Stack: Python · PubMedBERT · Stella 1.5B · FAISS · Neo4j GDS · trans2vec · Flask (REST APIs) · React.js · Gemini API

2. Adermis AI (Real-Time Skin Diagnosis) — Google Solutions Challenge Backend | Demo Video

 - **Problem:** Early detection & triage of skin conditions for under-resourced communities, with women's health Q&A.
 - **Action:** Developed Flask backend serving a PyTorch CNN (p95 150ms); added remedy-recommendation microservice; integrated WebRTC consult & geo-referrals.
 - **Impact:** Delivered sub-200ms classification at 92% accuracy; live consult via Flask-SocketIO (WebRTC)—exposed through a Next.js frontend.

- Tech Stack: Python · Flask · Pytorch · TensorFlow · Flask-SocketIO · Google Maps API · Next.js · TypeScript*

3. Campus-Hub 2.0 – DBMS Project

Backend | Live Site

Tech Stack: Python · Flask · SQLAlchemy · Docker · Render CI/CD · Supabase (PostgreSQL & Storage) · Flask-Mail · Flask-Session · Pillow · Jinja2 · HTML5 · CSS3 · JavaScript

ACHIEVEMENTS

- JEE Advanced 2023: AIR 6461 · JEE Main 2023: AIR 3660 · NTSE (Rank 126)
 - Codeforces: Peak rating 1427 (Specialist) · Solved 250+ problems · Global Rank 1171/32000+ Round 1027 (Div3)
 - CodeChef: Peak rating 1722 (3 STAR) · Global Rank 459 (Starters 169) · Global Rank 259 (Starters 170)
 - LeetCode: Knight (Peak 1853) · 400+ problems solved · Global Rank: 356/27K (Weekly 435), 1487/34K (Biweekly 152)
 - *Novartis NEST Hackathon*: All-India Semi-Finalist (Top 42 Teams / 32000+ participants)
 - Goldman Sachs India Hackathon 2025 (CS Track): AIR 390 out of 1600+ students from top 32 colleges
 - Google Student Launchpad 2025: Selected for Google's flagship upskilling initiative
 - 900+ problems completed across multiple coding platforms (codolio.com/ranjeet25)

LEADERSHIP & TECHNICAL EXPERIENCE

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| AI/ML Wing Member, Google Developer Group (GDG), IIIT-A | <i>Oct 2024 – Sep 2025</i> |
| <ul style="list-style-type: none">Delivered two 2-hour workshops (50+ attendees) on end-to-end ML pipelines—covering data ingestion, CNN training (PyTorch), and REST API deployment (Flask). Contributed to OpenCode'24 (IIIT Allahabad)Built a RASA chatbot with SQLite; implemented a FAISS-based RAG chatbot; developed a sketch-to-image <i>GAN Model</i> ·   | |