



Ronak Anand

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DOB: 13 February, 2007

Address: 345/4 Govindpuri, Kalkaji
New Delhi-110019



Education

Indraprastha Institute of Information Technology, Delhi

B.Tech (CSE with AI)
2024 - 2028

CGPA: 5.60

(Till 4th semester)

Kalka Public School, New Delhi

CBSE, Standard 12, PCM+CS
2023-2024

Percentage: 83.8%

Kalka Public School, New Delhi

CBSE, Standard 10
2022

Percentage: 85.2%

Skills

Expertise Area: Artificial Intelligence, Full-Stack Development

Programming Languages: Python, TypeScript, JavaScript, Java, C++, C

Tools and Technologies: React, Next.js, HTML5, CSS3, Tailwind CSS, Redux, Vite, FastAPI, Flask, Firebase (Auth, Firestore, Storage), PostgreSQL, LangChain, RAG Systems, Google Gemini API, xAI Grok, PyMuPDF, Git, GitHub, Linux, REST APIs, Vitest

Technical Electives: Data Structures and Algorithms, Signal and Systems, Operating Systems, Discrete Structures, Advanced Programming, Computer Organization, Linear Algebra, Probability and Statistics, Object Oriented Programming

Projects

Custom Unix Shell in C++

Guide: Self-Guided

Built a Unix-like shell in C++ using POSIX system calls (fork, exec, pipe, dup2, waitpid) supporting pipelines, redirection, and job execution. Implemented a full command parser with quote handling, escaping, history, and tab-completion using GNU Readline. Designed the system with modular execution, parsing, and I/O layers to ensure correctness, extensibility, and memory safety. Repository [here](#).

Team Size-1

(Dec, 25 - Feb, 26)

Acadira AI - AI Powered Learning Platform

Guide: Self-Guided

Built a full-stack AI learning workspace that converts PDFs, DOCX, and PPTs into summaries, flashcards, and quizzes using document-aware RAG. Designed a scalable FastAPI backend integrating multiple LLMs with grounded retrieval to prevent hallucinations. Repository [here](#).

Team Size-1

(Oct, 25 - Feb, 26)

Delhi Metro Route Finder - Graph-Based Navigation System

Guide: Self-Guided

Implemented Dijkstra's algorithm on a weighted graph to compute optimal metro routes across 200+ stations with sub-100ms response time. Developed an interactive visualization with real-time route highlighting, fare calculation, and REST API support. Repository [here](#).

Team Size-1

(May, 25 - Aug, 25)

University ERP System

Guide: Prof. Sambuddho

Developed a production-ready university ERP system with role-based access control, secure authentication, automated grade processing, and PDF transcript generation. Designed a scalable three-tier Java architecture with normalized MySQL schema, connection pooling, and comprehensive JUnit test coverage. Repository [here](#).

Team Size-2
(Aug, 25 - Dec, 25)

Multilingual Medical Appointment Chatbot

Guide: Prof. Jainendra Shukla

Developed a full-stack medical appointment management system with multilingual support, voice-based interaction, and secure user authentication. Built a modular Flask backend using MongoDB Atlas with role-based access control and secure data handling. Repository [here](#).

Team Size-6
(Jan, 25 - Apr, 25)

Positions of Responsibility

Event Assistant @ IEEE IIIT-Delhi Student Branch

(Jan, 25 - Present)

Coordinated logistics for technical workshops and seminars, helping organize multiple events per semester. Assisted in networking initiatives connecting students with industry professionals in AI and software engineering. Supported outreach and community-building activities across campus.

Interests and Hobbies

- Following advancements in artificial intelligence and software engineering through technical articles and research updates
- Building and exploring side projects in AI and backend systems and Full-Stack Development

Declaration: The above information is correct to the best of my knowledge.

Ronak Anand

Date: January 24, 2026