

Sachin Goyal

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EDUCATION

BE/B.Tech Computer Engineering
Thapar Institute of Engineering and Technology • Patiala, Punjab • 2027-7.97

SKILLS

Programming Languages: C, C++, Python, R, Matlab
IT Constructs: DSA, OOPS, DBMS, OS, Generative AI (LLMs, Prompt Engineering, RAG)
Databases: MySQL, neo4j
Tools & Platforms: VS Code, GitHub, Google Colab, AutoCAD, Hugging Face, LangChain

PROJECT

AI Chatbot Suite

Thapar Institute of Engineering And Technology • [Project](#)

- Developed specialized AI chatbots: Character AI for interactive conversations with book/movie personalities and a Math Solver for calculations.
- Implemented agentic AI within the Character AI and YouTube Video to Blog projects, enabling more autonomous and sophisticated responses and content generation.
- Created tools for content automation: a YouTube Video to Summarizer for transforming video content, a Database Query Chatbot for direct data retrieval, and a Code Assistant for programming tasks.
- Built diverse conversational applications using various AI models and frameworks, showcasing expertise in intelligent system development.

Personal AI Health Assistant

Thapar Institute of Engineering And Technology • [Project](#)

- AI Based Personal Health Assistant. .
- Technologies: Python, Gradio, scikit-learn, Pandas, GeoPy, KNN, Random Forest .
- Built ML-based Sleep Quality Predictor using Random Forest on a lifestyle dataset with custom health advice logic.
- Gained hands-on experience in full-stack AI app development, ML model integration, and health-tech prototyping.

Bank Management System (OOP Project)

Thapar Institute of Engineering And Technology • [Project](#)

- Technologies: C++.
- Built a console-based banking application using object-oriented programming principles.
- Implemented core features like account creation, deposit/withdrawal, balance check, and account updates.
- Applied concepts of classes, inheritance, encapsulation, and file handling for structured code.

EXPERIENCE

Competitive Programming & Practice.

Leetcode/ Geekforgeeks

- Solved 300+ DSA problems across platforms.
- Leetcode: <https://leetcode.com/u/sachingoyal2704/>
- GFG: <https://www.geeksforgeeks.org/user/sachingo1rdi/>
- Focused on problem categories such as dynamic programming, graph algorithms, and sorting techniques.

AI & Database Projects

- Built a multi-lane vehicle counting system using YOLO object detection for real-time traffic monitoring.
- Developed a DBMS Library Management System to efficiently handle book records, member information, and transaction tracking.

INVOLVEMENT

World Record Holder.

Guinness World Records

- Participated in a record-setting online programming event organized by AICTE and supported by Guinness World Records.
- Completed a hands-on Python programming module focused on building a Face Recognition App.
- Worked with key libraries such as OpenCV and face_recognition to detect and recognize faces from images and live video feeds.
- Contributed to a global learning milestone, with over 112,319 participants completing the session within 24 hours.