

# 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 • [github.com/SachinGoyal94/GEN-AI](https://github.com/SachinGoyal94/GEN-AI)

- 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 • [huggingface.co/spaces/SachinGoyal94/Persona\\_Health\\_Assistant](https://huggingface.co/spaces/SachinGoyal94/Persona_Health_Assistant)

- 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 • [github.com/SachinGoyal94/Banking-Systems](https://github.com/SachinGoyal94/Banking-Systems)

- 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.