

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, Oracle SQL

Tools & Platforms: VS Code, GitHub, Google Colab, AutoCAD, Hugging Face, LangChain

PROJECT

Personal AI Health Assistant

Thapar Institute of Engineering And Technology · 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.

Library Management System (DBMS Project)

Thapar Institute of Engineering And Technology · github.com/SachinGoyal94/Library-Management-System

- Technologies: SQL.
- Designed and implemented a database-driven system to manage library operations such as book issuance, returns, and member records.
- Created relational schemas and used SQL queries to perform CRUD operations efficiently.
- Applied concepts of normalization, keys, and relationships to maintain data integrity

Bank Management System (OOP Project)

Thapar Institute of Engineering And Technology · 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 / Geeksforgeeks

- 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 & Generative AI Projects

- Built a multi-lane vehicle counting system using YOLO object detection for real-time traffic monitoring.
- Currently developing context-aware chatbots using Generative AI concepts.

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.
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