Sachin Goyal

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EDUCATION

BE/B.Tech Computer Engineering

Thapar Institute of Engineering and Technology · Patiala,Punjab · 2027 · 7.98

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

PROJECTS

Personal AI Health Assistant

Thapar Institue 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 & 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 & 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 / 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 & 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.