

SACHIN GOYAL

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SKILLS

Programming Languages: C, C++, HTML, CSS, JS, Python, R, Matlab

IT Constructs: DSA, OOPS, DBMS, OS

Databases: MySql, Oracle SQL

Tools & Platforms: VS Code, GitHub, Google Colab, AutoCAD

PROJECT

Personal AI Health Assistant

Thapar Institute of Engineering And Technology • github.com/SachinGoyal94/Ai-Personal-Health-Assistant-

- AI Based Personal Health Assistant
- Technologies: Python, Gradio, scikit-learn, Pandas, GeoPy, KNN, Random Forest
- Designed and developed a multi-feature AI medical assistant that predicts sleep quality, estimates disease risk, recommends nutrition, and locates nearby doctors.
- 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.
- Strengthened skills in database design and SQL through hands-on implementation.

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.
- Enhanced practical application of OOP concepts and modular code architecture.

EDUCATION

BE/B.Tech Computer Engineering

Thapar Institute of Engineering and Technology • Patiala, Punjab, India • 2027 • 7.88

EXPERIENCE

Coding Experience

Leetcode / Geekforgeeks

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

INVOLVEMENT

Record Holder

Online • Guinness World Record.

- 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.