

# Sachin Goyal

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## EDUCATION

### BE/B.Tech Computer Engineering

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

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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

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## PROJECTS

### 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.

### Dual-Lane Vehicle Detection and Counting System

Thapar Institute of Engineering & Technology • [github.com/SachinGoyal94/Open-CV-Vehicle-Detection](https://github.com/SachinGoyal94/Open-CV-Vehicle-Detection)

- Built a real-time vehicle detection and counting system using YOLOv8 and OpenCV.
- Implemented dual-lane red line detection logic to count vehicles(cars, trucks, bikes) entering and exiting the frame.
- Generated CSV reports with up/down vehicle counts by class; saved annotated output as a video.
- Processed video feeds with frame-by-frame annotation, achieving accurate vehicle classification and movement tracking.

### Library Management System (DBMS Project)

Thapar Institute of Engineering & Technology • [github.com/SachinGoyal94/Library-Management-System](https://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.

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## EXPERIENCE

### Competitive Programming & Practice.

#### 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.

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## INVOLVEMENT

### Record Holder

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.
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