Sachin Goyal

Ludhiana, Punjab, India ✉ sachingoyal9274@gmail.com ▯ 6280034162 in Sachin Goyal ☁ sachingoyal94.github.io/website/

EDUCATION

BE/B.Tech Computer Engineering
ThaparInstituteofEngineeringandTechnology·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

ThaparInstituteofEngineering And Technology·Project
·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
ThaparInstituteof Engineering And Technology·Project
·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 InstituteofEngineering AndTechnology·Project
·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.

GuinnessWorld 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.