

SHIKHAR GOEL

Computer Engineering Student | AI/ML & LLM Applications | Full-Stack Developer

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SUMMARY

Computer Engineering student at TIET focused on AI/ML, LLM-powered agents, and prompt engineering, with hands-on experience shipping deployed full-stack products. Ranked #37 of 1,773 in HackerRank Orchestrate 2026 for building and deploying an AI agent. Holds multiple Anthropic certifications covering AI fluency, agent skills, subagents, and the Model Context Protocol (MCP), and actively builds DSA fundamentals (LeetCode) alongside applied AI projects.

EDUCATION

Thapar Institute of Engineering and Technology

2024 – 2028

B.E. in Computer Engineering

TECHNICAL SKILLS

- **Languages:** Python, C++, JavaScript, SQL
- **AI/ML:** Supervised Learning, Classification, Model Evaluation, Feature Engineering, LLM Integration, Prompt Engineering, Agentic Workflows
- **Web/Tools:** React.js, HTML5, CSS3, REST APIs, Fetch API, FileReader API, Git, GitHub, Claude API, Scikit-learn, Pandas, NumPy, Matplotlib
- **Core CS:** Data Structures & Algorithms (daily LeetCode practice), DBMS, Object-Oriented Programming
- **AI Research:** Benchmarking & Testing of AI Systems, AI Swarms, Agent Skills, Automations

EXPERIENCE

AI Intern | Bharat Electronics Limited (BEL), Bengaluru

July 2026 - Present

Remote AI Intern | Facillima (AI Startup)

May 2026 - June 2026

- Built and deployed the startup's education website end-to-end, contributing to product communication through a production-ready web presence.
- Researched AI benchmarking and testing platforms (Braintrust, LangSmith) and evaluated Tangmango and Graphy for product/platform comparison, informing the startup's tooling decisions.

HACKATHON PROJECTS & DEPLOYED WORK

Multi-Modal Evidence Review Agent | HackerRank Orchestrate Hackathon

June 2026

Python, Gemini 2.5 Flash, Prompt Engineering, Data Validation, AI Agent Design

- Ranked #37 out of 1,773 participants; built and deployed an AI agent that analyzes claim conversations, images, user history, and evidence rules to classify support/contradiction/insufficient evidence.
- Designed a validation-focused pipeline with schema checks, risk flags, caching, fallback handling, and judge-ready output generation.

DeadlineOS | Vibe2Ship by Google for Developers

June 2026

Deployed AI/productivity web app — Live App | GitHub

- Built and shipped a deployed hackathon application for deadline and productivity management using AI-assisted workflows, from build through final submission.

YONO Saarthi | SBI Hackathon @ GFF

June 2026

Live prototype deployed on Vercel — Live Prototype | GitHub

- Built a live hackathon prototype with full repository documentation, deployment links, README updates, and production build verification.

SELECTED PROJECTS

Customer Churn Predictor

Python, Scikit-learn, Pandas, NumPy, Matplotlib

- Built an end-to-end ML pipeline on 7,000+ telecom records; performed EDA, feature engineering, preprocessing, and model evaluation.
- Trained Logistic Regression, Random Forest, and XGBoost models; achieved 87%+ accuracy with the best-performing ensemble model and generated ROC-AUC/confusion-matrix insights.

Plagiarism Detection System

React.js, JavaScript, Claude API, FileReader API

- Built a browser-based plagiarism detection platform supporting PDF/DOCX/TXT uploads, drag-and-drop, LLM-based pairwise similarity analysis, web checks, side-by-side comparison, and downloadable reports.

AI Form-Filling App

React.js, JavaScript

- Built a React-based app that uses AI to auto-fill forms and stores submitted records in a database, streamlining repetitive data-entry workflows.

Personal Finance & Subscription Tracker (Team Project)

React, Node.js, Express, MySQL

- Built a full-stack expense and subscription tracker with relational schema design, foreign-key integrity across Users/Transactions/Categories/Subscriptions, and a HiddenCosts SQL view for derived cost data.
- Implemented a budget-enforcement trigger (SIGAL SQLSTATE) and a custom loggedQuery() wrapper that audits and logs the last 50 SQL executions for live debugging and demonstration.

Amazon Supply Chain Intelligence — Delay Risk Prediction (Team Project)

Python, Scikit-learn, Ensemble Learning (HistGradientBoosting, Random Forest, Gradient Boosting)

- Built a soft-voting ensemble classifier on 43,739 delivery records to predict On-Time/At-Risk/Delayed status, with engineered spatial-temporal and interaction features (Haversine distance, weather/traffic severity, speed proxy).
- Achieved 79.03% test accuracy (best of 4 models) with 88% precision on delayed-delivery detection; used permutation importance to identify agent rating and traffic severity as top delay drivers.

Malaria Detection Using CNNs (Team Project)

Python, TensorFlow/Keras, Convolutional Neural Networks, Grad-CAM

- Built a lightweight CNN (332K params) on the NIH malaria cell dataset (27,560 images), achieving 94.3% accuracy and 0.983 AUC for parasitized-cell classification.
- Integrated Grad-CAM explainability to visualize parasite-localized activation heatmaps, and applied data augmentation plus early stopping to prevent overfitting.

HACKATHONS, CERTIFICATIONS & COURSEWORK

- **Hackathons:** HackerRank Orchestrate 2026 — #37/1,773 (verified certificate) | Goldman Sachs India Hackathon (GIH) 2026 | Bharatiya Antariksh Hackathon 2026 — exoplanet transit detection (PS7) | SBI Hackathon @ GFF 2026 | Vibe2Ship by Google for Developers 2026 | AMD Developer Hackathon
- **Anthropic Certifications:** AI Fluency: Framework & Foundations; AI Fluency: AI Capabilities & Limitations; AI Fluency for Students; AI Fluency for Small Businesses; Introduction to Model Context Protocol (MCP); Introduction to Claude Cowork; Introduction to Subagents; Introduction to Agent Skills
- **Other Certifications:** Google Ads Apps Certification (2026) | Walmart Global Tech – Advanced Software Engineering Job Simulation (Forage, 2026) | Deloitte – Cyber Job Simulation (Forage, June 2026) | Thapar ELC – Mobile App Development
- **Coursework:** Data Structures & Algorithms, DBMS, Object-Oriented Programming, Web Development, Machine Learning Fundamentals, Artificial Intelligence | Active on CodeChef & Leetcode