

# Gaurav Chauhan

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LinkedIn | GitHub | HackerRank | LeetCode | CodeChef



## EDUCATION

### Bachelor's in Technology

2021–2025

Mahatma Jyotiba Phule Rohilkhand University, Bareilly  
Computer Science and Information Technology — CGPA - 7.77

### Class XII ( PCMCs )

2018–2020

ST. Francis School Ramnagar, Varanasi

## EXPERIENCE

### Python Developer Intern, Abym Technology

July 2025 – Present

- Developed RAG-based AI applications using Python, LangChain, and LLMs for context-aware conversations.
- Implemented RAG pipelines using embeddings and vector databases for semantic search and dynamic context retrieval.
- Managed JSON/SQL-based data storage to enhance chatbot context handling and workflow scalability.

### Machine Learning Research Intern, IIT BHU

June 2024 – July 2024

- Researched and implemented emerging ML algorithms in healthcare and UAV applications.
- Analyzed research papers, derived insights, and transformed findings into working models.
- Prepared technical documentation and presentations to summarize research results.

## PROJECTS

### Medical Assistance Chatbot — GitHub

[RAG, LangChain, Gemini, HuggingFace, AI Agents]

- Developed a Conversational AI chatbot for symptom triage using Retrieval-Augmented Generation and Conversational Query Reformulation (CQR).
- Integrated AI Agents for appointment scheduling, personalized health recommendations, and memory management.
- Leveraged Gemini LLM with domain-specific prompts to enhance medical response precision and relevance.

### SQL Database Chatbot — GitHub

[Python, MySQL, LangChain, LLM, Data Visualization]

- Built an AI-powered assistant that interprets natural language to generate and execute SQL queries using LLMs.
- Enabled real-time data retrieval and automatic chart generation for analytics and decision-making dashboards.
- Implemented speech-to-text and text-to-speech for multimodal user interaction.

### Solar Panel Fault Detection — GitHub

[TensorFlow, CNN, Transfer Learning, VGG16]

- Designed and trained a deep learning model using transfer learning (VGG16) for defect detection in solar panels via aerial imagery.
- Optimized model through data augmentation, early stopping, and fine-tuning, achieving 85.9% validation accuracy.
- Applied confusion matrix, precision, recall, and F1-score for model performance evaluation.

### QR-Based Smart Attendance System — GitHub

[JS, Flask, Python, QR Code, GPS]

- Developed a location-verified QR attendance system using Flask, GPS APIs, and real-time database logging.
- Automated attendance tracking and reporting, improving workflow efficiency by over 25%.

## CERTIFICATIONS

- Data Science Using Python – SWAYAM
- Oracle Cloud Infrastructure (OCI) AI Foundations
- SQL (Intermediate) – HackerRank

- Training Programme on Generative AI
- Data Analytics Virtual Internship – Deloitte
- Problem Solving – HackerRank

## TECHNICAL SKILLS

- Language:** Python, C++, JavaScript
- Data Tools:** MySQL, MongoDB, AWS, PowerBI, Excel
- Library:** ReactJs, Flask, NumPy, Pandas, Scikit-learn, LangChain, HuggingFace
- Concepts:** OOP, Data Structure, Database, SDLC, Supervised, Unsupervised Learning, RAG, GenAi, Prompting
- Soft Skills:** Problem Solving, Presentation, Communication, Technical Writing