

Rakshit Gupta

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SUMMARY

ML & Data Science Engineer with hands-on experience in NLP, LLMs, and product analytics. Built end-to-end LLM pipelines, RAG systems, and deployed ML applications on AWS. Strong foundation in Python, SQL, transformers, embeddings, and data-driven decision making. Solved 450+ DSA problems.

SKILLS

Programming: Python, Java, C/C++, SQL, JavaScript, R
ML/AI: NLP, Transformers, LLM Fine-tuning, RAG, Scikit-learn, HuggingFace, FAISS
Analytics: SQL, Google Analytics, Funnel Analysis, User Behavior Analysis
Frameworks: Flask, Django, Streamlit, Rasa
Cloud/DevOps: AWS (EC2, S3, App Runner), Docker, Git
Databases: MongoDB, MySQL

EXPERIENCE

Data Analyst Intern — Riverhouse Technologies Nov 2024 – Present

- Analyzed user behavior using Hotjar session recordings, Google Analytics, and SQL-based queries.
- Identified UX drop-offs, abnormal navigation patterns, and conversion issues impacting product adoption.
- Performed root-cause analysis and proposed actionable solutions to developers and company leadership.
- Collaborated with engineering teams to validate fixes and monitor post-deployment behavior changes.

Research Intern — University of Burdwan Jun 2024 – Nov 2024

- Developed LLM pipelines for legal text processing (entity extraction → chunking → embeddings → summarization).
- Worked with Legal-BERT, transformer models, and large-scale legal corpora.
- Built retrieval systems using HuggingFace and FAISS for RAG-based applications.

PROJECTS

NayaLLM – Legal Domain LLM (2025) HuggingFace

- Built a Legal-BERT based pipeline with intelligent chunking, embeddings, and abstractive summarization.
- Created a retrieval-ready dataset enabling RAG-based legal question answering.

BSP Shayak Chatbot (2025) GitHub

- Developed a Rasa-based AI chatbot for BSP employees to automate gate-pass workflows.
- Integrated APIs for medical queries, medicine recommendations, and conflict resolution.

Sensor Fault Detection (2024) GitHub

- Designed an ML pipeline for IoT sensor anomaly detection.
- Deployed the system using AWS EC2, S3, and App Runner.

EDUCATION

Shri Shankaracharya Technical Campus, Bhilai (2022–2026) — B.Tech CSE — SPI: 8.0

St Teresa Convent School, Raigarh — Class 12 (2022): 94.2%

Shalini Convent School, Raigarh — Class 10 (2020): 93.6%

ACHIEVEMENTS

- Rank 12 — GFG University Leaderboard
- Solved 450+ DSA problems
- Research paper on Legal Summarization (under review)

CERTIFICATIONS

PwSkills — Data Science with GenAI (2025)

HackerRank — Python Basic (2024)