

Rohit Kumar

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Technologies

Languages and Tech: Python, C, C++, Java, JavaScript, MySQL, Linux, SQL, Git, scripting, Selenium, Docker, TensorFlow, ReactJS, Flask, Pandas, PySpark, Databricks, OpenCV, Flask, Matlab, AWS, RLHF, Azure ML, Matlab, PowerBI, Tableau

Education

Sarala Birla University
B.Tech in AI (Artificial intelligence)

Nov 2021 – March 2025

Experience

Software Engineer Intern

Coreco Technologies [🔗](#)

Pune , Maharastra

July 2024 – Nov 2024

- Integrated Yoda GPT into a Slack bot within a CI/CD pipeline, using JavaScript and Postman for API testing with payloads, and stored data in MySQL and PostgreSQL databases via pgAdmin
- Designed and deployed an AI bot for Microsoft Teams using Node.js, Azure App Services, and Adaptive Card format, with data stored in Azure Storage for Uptroop.io clients.

Data Scientist intern

Gradstem [🔗](#)

Remote, Michigan, USA

June 2024 – Nov 2024

- Developed an automated resume parsing pipeline using **Selenium** for website automation, **Docker**, and **AWS**, enhancing application efficiency. Built GPT-driven models for job matching and parsing, analyzing 110k+ job listings and automating Workday entries. Increased ATS scores by 30% and deployed the solution on AWS using Lambda functions

Data Engineer intern (Remote)

Taiyo.ai [🔗](#)

San Francisco Bay Area

March 2021 – Sept 2021

- Collected and processed financial, economic, and geopolitical data from sources like World Bank, OECD, and IMF into a Data Lake. Extracted data from websites using Selenium and BeautifulSoup, with 20+ Python scripts automating the data extraction pipeline. Preprocessed, analyzed, and stored the data in Google Cloud Storage buckets while developing ML models.

Achievements

- [🔗 Samsung Solve for Tomorrow Top 30 Winner](#) - Ranked in the Top 30 out of 70,000+ participants nationwide developed **Laper App**, an innovative mobile application providing instant solutions for developers.
- [🔗 Winner , Anveshana Synopsys, Delhi \(02/2024\)](#) - Developed an IoT project using ESP Cam, Arduino, and ML to prevent train accidents with obstacle and drowsiness detection, winning cash prizes and goodies.

Projects

GenAI Web Application for Interactive PDF and Image Communication [Deployed Live](#) [🔗](#)

[api](#) [🔗](#) [reactjs](#) [🔗](#)

- Designed and developed a production-ready GenAI web app leveraging LangChain and FAISS for semantic search and efficient PDF and image interaction. The app allows users to ask image-related questions and receive AI-driven answers. Built with React.js and Flask, it is deployed on Firebase and Azure for scalability and performance.

MLflow [Deployed Live](#) [🔗](#) (10/2024)

[Rohitw3code/MLflow](#) [🔗](#)

- Built a no-code platform for seamless data preprocessing, feature selection, and model training, automating CI/CD pipelines for 37 algorithms. Deployed on an Azure server, it enables data analysis without coding and enhances productivity in academic ML projects. Tech Stack: ReactJS, Flask, Pandas, sklearn

CCTV Video Violence Detection (Deep learning MLOps CI/CD)

[CCTV-Fight](#) [🔗](#)

- Developed a real-time fight detection system using CNN/ViT for frame analysis and RNN/Transformer for sequence modeling. Implemented ViViT for efficient video classification with novel embeddings.

LLM Fine-Tuning Text Detoxification Using RLHF

[Source-code RLHF](#) [🔗](#)

- Fine-tuned Flan-T5 for advanced summarization tasks using LoRA/PEFT and RLHF to generate detoxified, coherent outputs. Optimized workflows for efficient NLP applications.

AI-Powered Resume Generator and Filter) [filter-github](#) [🔗](#) [generator-github](#) [🔗](#)

- Developed an AI-powered platform for resume creation and filtering. Enabled users to generate job-specific resumes in LaTeX/PDF and HR teams to filter resumes efficiently using semantic search, saving time and effort. Tech Stack: CrewAI, LangChain, FAISS, Next.js, Flask, Python, Streamlit.