

# Rohit Kumar

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## EDUCATION

### Sarala Birla University

B.Tech in AI (Artificial Intelligence)

### Kendriya Vidyalaya CRPF Ranchi

Class 12th CBSE 92.2%

Ranchi, Jharkhand

11/2021 - 04/2025

Ranchi, Jharkhand

## TECHNICAL SKILLS

**Programming Languages:** Python, C++, C, Java, Javascript

**Libraries and Tools:** Tensorflow, HuggingFace, PyTorch, Pyspark (databricks), Sklearn, Pandas,

Numpy, Langchain, OpenCV, LLM, flask, nodejs, reactjs, nextjs, NLP, sql, etl, Git, firebase, mongodb, Linux, Docker, MLOps, ZenML

**ML Architectures:** CNN, YOLO, Transformers (BERT, LSTM)

## WORK EXPERIENCE

### Samsung

*Solve for Tomorrow Top 30*

CSR FITT (Corporate Relations - IIT Delhi), onsite - Delhi

06/2023

- Achieved a remarkable ranking in the Top 30 among more than 70,000 participants across India for developing an innovative mobile application that provides instantaneous solutions and support to a developer [Laper App -playstore](#)

### Data Engineer

*Taiyo.ai, San Francisco California, USA*

remote-internship

06/2021 - 09/2021

- Web Scraping :** Developed Python script using OOP principles to scrape data from World Bank and IADB government websites. Implemented translation of websites into English for uniformity.
- Data Pipeline:** Established a robust data pipeline integrated with Google Cloud for seamless data transfer. Utilized Docker to containerize the scraping and preprocessing processes for portability and scalability.
- Data Preprocessing :** Employed PySpark on Databricks along with Pandas and NumPy for efficient data preprocessing. Utilized visualization libraries like Matplotlib and Seaborn for exploratory data analysis.
- End-to-End Pipeline :** Developed an end-to-end ETL pipeline for streamlined data extraction, transformation, and loading.

### Prompt Engineer

*Scale AI, remote*

09/2023 - 02/2024

- Enhanced prompt-based AI model :** Reviewed and optimized a language model (LLM) for generating code in data science and machine learning tasks
- Code review :** Examined code generated by the LLM model, ensuring accuracy, efficiency, and adherence to best practices in Python and other programming languages.

## PROJECTS

- AI Multi-Agent System (AI Resume Creator): 05/2024** Developed advanced AI system that enables users to quickly and easily create optimized resumes tailored to specific job postings, increasing their chances of securing the job. This system generates LaTeX code and converts it into a PDF file. Utilized the tech stack : CrewAI, nextjs, flask [Github](#)
- AI ResumeRover (LLM langchain) (09/2023)** Functionality: A platform for HR to upload and manage hundreds of resumes simultaneously. Enabled HR to filter resumes efficiently based on project needs and employee. Technology Stack: Langchain and fine-tuned with OpenAI and FAISS, Python, Streamlit [Video show case](#) [GitHub](#)
- Data Science QuickFlow (11/2023)** Developed a web tool for a data scientist using Flask, React, Tailwind CSS, Pandas, and NumPy. This platform enables data scientists to perform all data preprocessing tasks, feature selection, and machine learning model training tasks without writing code. It supports 17 regression and 20 classification algorithms and code generation tech stack : reactjs, Flask api, pandas, numpy, sklearn, javascript [Video show case](#) [Github](#)
- MedDiag: AI-Powered Disease Diagnosis and Doctor Report Summary (02/2024)** Developed a web app that predicts disease types from images using deep learning with CNN. It supports three types of images: bone fractures, skin diseases, and CT scans of brain tumors. The site classifies the disease, displays symptoms, describes the condition, and suggests precautions. It also summarizes doctor report cards for easier understanding.

- **PowerBI (Data Analysis): Revenue Insights in Hospitality Domain** Developed mock up dashboard to deliver detailed revenue insights for the hospitality industry. Demonstrated exceptional attention to detail and presentation quality, effectively highlighting key financial metrics. [Github](#)
- **(Reinforcement Learning) AI Maze Solver: Q-Learning Project (03/2024)** Created a maze game where an AI agent navigates towards the goal using the Q-Learning Algorithm. Developed entirely from scratch in Python pygame, problem solving skill [video show case](#) [Github](#)
- **Speech Emotion Detection (08/2023)** Created a website capable of analyzing user speech to predict their emotional state. The system can classify emotions such as anger, surprise, happiness, sadness, disgust, crying, and normal emotion [Check out!](#)
- **Object Detection from Scratch YOLO (01/2024)** Build end-to-end Pipeline to preprocess data and Train and test the model and Realtime Object Detection Tensorflow, numpy, matplotlib, opencv, problem solving [Check out!](#)
- **Codeddit App** Developed a community app for developers with java/kotlin , firebase (8k+ download) [Codeddit App -Playstore](#)

## EXTRACURRICULAR ACTIVITIES

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### Ranked Top 5 in Anveshana

Synopsys , Delhi 02/2024

- Developed a live IoT project utilizing ESP Cam, Arduino, and machine learning for train accident prevention Implemented obstacle detection and drowsiness detection for the train driver, resulting in winning cash prize and goodies in a competition