

# Rohit Kumar

I am Rohit Kumar, a passionate Data Scientist with a strong background in Artificial Intelligence. Skilled in Data Science, Machine Learning, Computer Vision, App and Android App Development, and various programming languages, I love exploring the power of data to create innovative solutions.

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## EDUCATION

### B.Tech Artificial Intelligence

Sarala Birla University

12/2021 - Present

### Class 12th

Kendriya vidyalaya CRPF

92.2%

## WORK EXPERIENCE

### Data Engineer

Taiyo

06/2021 - 09/2021

remote

Achievements/Tasks

- Conduct web scraping to extract data from both the World Bank and IADB etc websites
- establishment of a robust data pipeline for seamless integration with Google Cloud.
- Employ Python scripting, emphasizing Object-Oriented Programming (OOP) principles Effectively preprocess this data using Pandas and NumPy.

### Scale AI

Domain Expert ML/AI Training

09/2023 - Present

remote

Achievements/Tasks

- Review LLM model code generation Data science and ML training expert improved prompt generative AI model for better performance.

### Solve for Tomorrow FIIT intern

Samsung

06/2023

Achievements/Tasks

- Ranked Top 30 All India in Samsung solve for tomorrow - Innovation out of 70,000 participation.

### Ranked Top 5 in Anveshana

synopsys

02/2024 - 02/2024

Delhi

Achievements/Tasks

- Led successful development of 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.

## SKILLS

python

C/C++

js

pandas

oops

deep learning

## PERSONAL PROJECTS

### MLflow (CI/CD) MLOps (10/2024 - 11/2024)

- Developed a no-code web tool for data scientists using Flask, React, and Tailwind CSS, enabling seamless data preprocessing, feature selection, and model training with 17 regression and 20 classification algorithms
- The platform supports hyperparameter tuning and generates code for efficient machine learning workflows. deployed : <https://codefor-mlflow.web.app>

### Speech Emotion Recognition (machine learning) (07/2023)

- Predict user emotions from audio input using a Flask website trained on 2,800 audio data samples across 7 emotions: happy, sad, surprise, fear, angry, disgust, and neutral.

### Data Science Tool : QuickFlow ML (11/2023)

- Perform data preprocessing and feature selection Train and test models set hyperparameters.
- Select from 17 regression and 20 classification algorithms
- Generate code based on selected hyperparameters and algorithms
- React, Tailwind CSS, Python Flask, along with foundational data science tools including Pandas, NumPy, HTML, and JavaScript

### AI ResumeRover (LLM) (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 requirements, providing valuable insights through query-driven analysis.
- Technology Stack: Built using Langchain and fine-tuned with OpenAI and FAISS , Python , Streamlit

### Reinforcement Learning - Q-Learning (Self-Learning) Frozen Lake Game (01/2024 - 01/2024)

- reinforcement learning mini project entirely from scratch, without relying on any external libraries , used pygame for GUI and implemented Q-Learning Algorithm

### Codeddit App (Available on playstore)

- Community App for Programmers 8k+ downloads (Java & firebase)

### Laper App (Available on playstore)

- Instant Programming support (Kotlin , firebase,nodejs,mongodb) - selected in 30 TOP All india Samsung solve for tomorrow website : laper.dev

### Tic Tac Toggle Game App (Available on playstore)

- It is new concept game inspired from the tic tac toe game