

RISHABH SAGAR

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EDUCATION

Cluster Innovation Centre, University of Delhi, New Delhi, India
B.Tech in Information Technology and Mathematical Innovation

Nov 2021 – June 2025 (Expected)
GPA: 8.86/10

Minor in Management

DVS School, New Delhi, India
High School Diploma

July 2019 – July 2021
Percentage: 84.2

Non-Medical Science with Computer Science

SKILLS SUMMARY

- **Programming Languages:** Python, C, JavaScript, Java, HTML, CSS, PHP
- **Technologies:** Machine Learning, Artificial Intelligence, Data Science, Web Development, MySQL
- **Frameworks & Tools:** TensorFlow, Git, Postman, Visual Studio Code
- **Soft Skills:** Leadership, Analytical Thinking, Communication, Project Management, Team Collaboration

EXPERIENCE

DeepLogic AI

Sep 2024 – Present

AI/ML Intern

- Engineered a CNN-based system for automated extraction of representative images from medical videos
- Designed a frame-by-frame classification pipeline with advanced probability scoring for optimal image selection
- Integrated CNN embeddings with FAISS for rapid image similarity comparison in labeled databases

DeepLogic AI

Jul 2023 – Aug 2023

Machine Learning Engineer Intern

- Architected a multi-attribute hybrid search algorithm suite, improving search accuracy and efficiency across large datasets
- Optimized search algorithms, achieving an RMSE smaller than 5, significantly enhancing overall performance
- Conducted data analysis to identify key performance indicators, driving algorithmic improvements

Beyond Exams

Jun 2022 – Nov 2022

Machine Learning Engineer Intern

- Developed a YouTube video classification platform, categorizing content into over 30 categories with 85%+ accuracy
- Designed a hierarchical classification system for nuanced content analysis
- Implemented interactive features for video exploration, search, and content distribution visualization

PROJECTS

Facial Expression Classification — *Python, Deep Learning, ResNet50, Inverted Pyramid Pooling*

Engineered an advanced deep learning model utilizing ResNet50 architecture and Inception Pyramid Pooling Module to accurately classify diverse facial expressions across multiple emotional categories.

Intelligent Food Recipe Generator — *Python, Jupyter, Pandas, NumPy, Computer Vision, Spoonacular API*

Developed an AI-powered tool leveraging computer vision techniques to analyze ingredient images, generating personalized recipe suggestions with more than 80% accuracy through seamless integration with the Spoonacular API.

Advanced AI Voice Assistant — *Python, Speech Recognition, Whisper, LLaMA, ParlerTTS*

Architected a comprehensive AI voice assistant integrating Whisper for speech recognition, LLaMA for natural language processing, and ParlerTTS for voice synthesis, enabling natural interactions and complex query handling.

Media Bias Detection for Indian News — *Python, NLP, Text Analysis, Machine Learning*

Constructed a sophisticated NLP-based system employing state-of-the-art machine learning models to effectively detect and quantify media bias in English-language Indian news articles across diverse topics.

COURSES AND CERTIFICATIONS

– **A.I., Machine Learning & Data Science Bootcamp**

Mastered advanced skills in TensorFlow 2.0, Python, data preprocessing, and applied machine learning through hands-on projects and real-world case studies.

– **Blockchain & Cryptocurrency Development**

Gained proficiency in Python, JavaScript, and React, with a focus on blockchain fundamentals, API development, and frontend implementation for decentralized applications.

ACHIEVEMENTS

– **Hack2Educate Hackathon Champion** — November 2022