# RISHABH SAGAR

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## EDUCATION

**Cluster Innovation Centre, University of Delhi, New Delhi, India**   *Nov 2021 – June 2025 (Expected)*
*B.Tech in Information Technology and Mathematical Innovation*   *GPA: 8.86/10*
Minor in Management

**DVS School, New Delhi, India**   *July 2019 – July 2021*
*High School*   *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 – Nov 2024**
*AI/ML Intern*
- Engineered a CNN-based system for automated extraction of representative images from medical videos, achieving 80% accuracy
- 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**