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# RAHUL RAJ

Driven by plain curiosity that ignited my strong passion for AI and ML, I tackle intricate challenges with innovative imagination and technical accuracy, converting complex problems into innovative, high-impact solutions.

#### **SKILLS**

- o Python
- o Django
- o Flask
- JavaScript
- React

- Mern stack
- Postgres
- MongoDB
- o ETL, Pandas
- TensorFlow

- Machine learningDeep Learning
- o NLP

# **Projects**

# GitHub: iamrahulr30

# Unsplash Clone MERN + \$3

• Created a photo-sharing web application using the **MERN** (MongoDB, Express.js, React, Node.js) stack. Integrated Amazon **\$3** for efficient storage and retrieval of images, providing users with a modern and responsive platform for sharing and exploring visual content.

#### **NewsCat**

• Engineered a Celery-powered ETL pipeline for real-time news classification. Collected training data via **web scraping** and applied **NLP** techniques with TensorFlow and SpaCy. Utilized asynchronous Celery tasks for efficient article processing and classification.

# KelvinWarp: Image & Video Deformation

 Implemented image and video deformation using the Kelvinlet technique, focusing on displacement and inversion for realistic, elastic-like effects. Developed parallel and sequential pipelines with OpenCV, Ray, and NumPy to efficiently apply Kelvinlet inversion to images and videos.

#### ChromoNet

 Chromosome Image Classification employs transfer learning with ResNet for precise chromosome image classification. Utilizing Flask on the backend, streamlines model deployment and inference for efficient analysis, Achieved 95% classification accuracy, streamlining chromosome analysis for research and medical applications.

#### AI-Enhanced Tic Tac Toe & Personalized Music Recommendations

Developed a Deep Learning-powered Tic Tac Toe engine with adaptive AI strategies.
Engineered a Music Recommendation System utilizing Cosine Similarity for personalized music suggestions, enhancing user experience.

#### Static Blog Deployment — starryreads.com

• Deployed a static blog on AWS S3 with Cloudflare CDN, secured using AWS Lambda to allow access only through Cloudflare, boosting performance and security.

#### Education

**Vellore Institute of Technology (VIT -Vellore)**, M.Tech in Artificial Intelligence and Machine Learning

(2024–2026). CGPA: 8.73 Kingston Engineering College

B.E Computer Science and Engineering (2020 - 2024).

Coding Profiles Kaggle: Rahul30 Codewars: rahulr30