

RAHUL RAJ.R

30-July-2003 | AI/ML Enthusiast

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OBJECTIVE: Passionate AI/ML researcher focused on innovating and building impactful solutions through experimentation and continuous learning.

🔗 IAMRAHULR30

PROJECTS :

KelvinWarp: Image & Video Deformation

- Implemented Kelvinlet-based image and video deformation for realistic elastic effects using OpenCV, Ray, and NumPy, optimizing parallel pipelines for up to 89% faster processing.

BART-Based Question Answering for Research Papers

- Fine-tuned a BART-based model for question-answer generation in physics and mathematics research papers. Optimized NLP pipelines using Pytorch and Hugging Face.

NewsCat

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

Violence Detection System

- Built with ConvLSTM model for video analysis to detect violence. Used OpenCV for frame extraction and integrated FaceRecognition to identify individuals involved in detected events.

ChromoNet

- Crafted a high-precision chromosome image classifier using transfer learning and a Flask backend, achieving 95% accuracy to streamline biomedical analysis.

Unsplash Clone MERN + S3

- Developed a sleek photo-sharing web app using the MERN stack (**MongoDB, Express.js, React, Node.js**) with **Amazon S3** for robust image storage and responsive performance.

Blog Deployment - starryreads.com

- Launched a secure static blog on **AWS S3** with Cloudflare CDN, using Lambda and **EventBridge** for daily automation.

TECH STACK :

AI/ML - TensorFlow, PyTorch, NLP, ETL, OpenCV, NLTK

Frameworks - Django, Flask, React, MERN stack .

Databases - PostgreSQL, MongoDB.

Languages - Python, JavaScript, C, Java .

CODING PROFILES :

🔗 Leetcode : Rahulraj_30

🔗 Kaggle : Rahul30

🔗 Github : iamrahulr30

ACHIEVEMENTS :

✓ Solved 150+ problems on LeetCode.

✓ Runner-up in Inter-College and Zonal-Level Basketball matches.

Interests :

📖 Books,

🏀 Basketball,

🏃 Running,

EDUCATION :

Vellore Institute of Technology (VIT), Vellore

M.Tech in CSE - AI & ML (2024 - 2026) | GPA 8.7

Kingston Engineering College

B.E in Computer Science Engineering (2020 - 2024) | GPA 7.9

CERTIFICATIONS :

🔗 Machine Learning in Production - DeepLearning.AI, Coursera

🔗 Full Stack Python Programming - Naan Mudhalvan (GUVI)

🔗 Complete Python Bootcamp - Udemy