

RAHUL RAJ.R

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 :

BART-Based Question Answering for Research Papers

- Fine-tuned a BART model for generating Q&A on physics/math research papers using PyTorch and Hugging Face.

CycleGAN for Photo-to-Monet Style Transfer

- Trained a CycleGAN for unpaired photo-to-Monet translation using a U-Net generator, PatchGAN discriminator, and custom PyTorch preprocessing.

KelvinWarp: Image & Video Deformation

- Implemented Kelvinlet-based deformation using OpenCV, Ray, and NumPy; parallelized pipeline achieved up to 89% faster processing.

Violence Detection System

- Built a ConvLSTM-based video violence detector with OpenCV for frame extraction and FaceRecognition for identifying individuals.

NewsCat

- Designed an ETL pipeline for real-time news classification using web scraping and NLP (TensorFlow, SpaCy); used Celery for async tasks.

Blog Deployment - starryreads.com

- Deployed a secure static blog on AWS S3 with Cloudflare CDN; automated updates with Lambda and EventBridge.

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.

General Skills :

ETL , Data Visualization ,
Pattern Recognition , DSA , Git

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 200+ 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 8.97**

Kingston Engineering College

B.E in Computer Science Engineering (2020 - 2024) | **GPA 7.91**

CERTIFICATIONS :

- 🔗 Machine Learning in Production - DeepLearning.AI, Coursera
- 🔗 Full Stack Python Programming - Naan Mudhalvan (GUVI)
- 🔗 Complete Python Bootcamp - Udemy