

# RAHUL RAJ.R

AI/ML Enthusiast

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**OBJECTIVE:** Passionate about AI/ML research, with a focus on learning, exploring new ideas, and building impactful solutions through innovation and experimentation.

## PROJECTS :

### 🔗 IAMRAHULR30

#### 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 fast, secure static blog on AWS S3 with Cloudflare CDN for exclusive Cloudflare access, fortified with AWS Lambda and scheduled via EventBridge for daily automated execution.

#### NewsCat

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

#### KelvinWarp: Image & Video Deformation

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

#### ChromoNet

- Crafted a high-precision chromosome classifier (95% accuracy) using transfer learning with a Flask backend for biomedical use.

#### Violence Detection System :

- Built with ConvLSTM model for video analysis, using **OpenCV** for frame processing and **FaceRecognition** for identifying individuals.

#### 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.

## General Skills :

REST API's , ETL , Git ,  
Pattern Recognition , DSA

## TECH STACK :

**Frameworks** - React, MERN stack  
Node.js, Express , Django, Flask .

**Databases** - PostgreSQL,  
MongoDB.

**Languages** - ,JavaScript, Python,  
C.

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

## 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.

## Beyond Tech:

📖 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 and Engineering (2020 - 2024) | GPA 7.91*

## CERTIFICATIONS :

- 🔗 Machine Learning in Production - DeepLearning.AI,Coursera
- 🔗 The Complete Python Bootcamp From Zero to Hero in Python - Udemy
- 🔗 Full Stack with Python Programming - Naan Mudhalvan (GUVI)