

# 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

#### KelvinWarp: Image & Video Deformation

- Implemented Kelvinlet-based image and video deformation for realistic elastic effects. Optimized parallel and sequential pipelines using **OpenCV**, **Ray**, and **NumPy**.

#### 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 asynchronous Celery tasks for efficient article processing and classification.

#### Violence Detection System :

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

#### ChromoNet

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

#### 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**.

#### 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.

## 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.

## 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)