

RAHUL RAJ.R

AI/ML Enthusiast

+91 9597608623

rahulraj307r@gmail.com

linkedin.com/in/30rahul-raj

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**.

Violence Detection System :

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

NewsCat

- Engineered a Celery-powered 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.

ChromoNet

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

PhyMathQA: BART-Based Question Answering for Research Papers

- Fine-tuned a BART-based model for question-answer generation in physics and mathematics research papers. Optimized dataset preprocessing with chunking and 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.

Static 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 :

Languages - Python, JavaScript, C (basics).

Frameworks - Django, Flask, React, MERN stack .

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

Databases - PostgreSQL, MongoDB.

CODING PROFILES :

🔗 Leetcode : Rahulraj_30

🔗 Kaggle : Rahul30

🔗 Github : iamrahulr30

🔗 Codewars : Rahulr30

ACHIEVEMENTS :

✓ Solved 100+ problems on LeetCode.

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

Beyond Tech:

📖 Books,

🏀 Basketball,

🏃 Running,

🎬 Movies.

EDUCATION :

Vellore Institute of Technology (VIT), Vellore

M.Tech in Computer Science and Engineering (Specialization in AI & ML) 2024 – 2026

CGPA: 8.73

Kingston Engineering College

B.E in Computer Science and Engineering 2020 – 2024

CGPA: 7.9

CERTIFICATIONS :

🔗 The Complete Python Bootcamp From Zero to Hero in Python – Udemy

🔗 Full Stack with Python Programming – Naan Mudhalvan (GUVI)