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**.

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.

AI-Enhanced Tic Tac Toe & Personalized Music Recommendations
- Built an adaptive, deep learning–powered Tic Tac Toe model and a cosine similarity–based music recommendation system to elevate user engagement.

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)**