RAHUL RAJ

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
- o 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.

NewsCat
- o Engineered a Celery-powered ETL pipeline for real-time news 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.

KelvinWarp: Image & Video Deformation
- o Implemented Kelvinlet-based image and video deformation for realistic elastic effects. Optimized parallel and sequential pipelines using **OpenCV**, **Ray**, and **NumPy**.

ChromoNet
- o 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
- o Built an adaptive, deep learning–powered Tic Tac Toe model and a cosine similarity–based music recommendation system to elevate user engagement.

Static Blog Deployment – starryreads.com
- o 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.

Violence Detection System:
- o Built with ConvLSTM for video analysis, using OpenCV for frame processing and FaceRecognition for identifying individuals.

TECH STACK

Languages : Python, JavaScript, C (basics).
Frameworks: Django, Flask, React, MERN.
AI/ML: TensorFlow, NLP , ETL, OpenCV, NLTK
Databases: PostgreSQL, MongoDB.

CODING PROFILES :
Leetcode : Rahulraj_30
Kaggle : Rahul30
Codewars : Rahulr30
Github : Iamrahulr30

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)**