KURUVA RADHAKRISHNA

Student

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CodeChef | **Linkedin** | **HackerRank** | **LeetCode** | **GitHub**

EDUCATION

National Institute of Technology Delhi   New Delhi,India
Electronics and Communication Engineering (Major) and AIML(Minor) BTech   nov 2022 - Present
CGPA: 8.95

FIITJEE   Vijayawada, Andhrapradesh
MPC Intermediate   june 2020 - may 2022
Percentage: 96.6%

Jawahar Navodaya Vidyalaya   Kurnool, AndhraPradesh
Degree in High School   july 2015 - march 2020
Percentage: 94.8%

EXPERIENCE

CSIR - NPL | Trainee   Delhi,India | June 2024 - July 2024

> I gained hands-on experience in thin film deposition using DC magnetron sputtering under the guidance of Dr. Sudhir Husale. I successfully deposited titanium (Ti) and gold (Au) pads on silicon nitride and silicon oxide substrates.

SKILLS

Programming Languages:	c++, c, javaScript
Libraries/Frameworks:	React, CSS, HTML
Tools / Platforms:	Git, VSCode
Databases:	mongoDB, MySQL

PROJECTS / OPEN-SOURCE

Zerodha Clone | Link   *MongoDB Express React NodeJs*

- Built with React for a dynamic and interactive user experience and deployed it on Render.
- Comprehensive Portfolio Management, allowing users to track their Watchlist,Holdings, and Positions in real time.
- Trading Functionality, enabling users to buy and sell stocks directly from their watchlist.
- Secure Authentication & Authorization, implemented using Passport.js for user access control.

LookOut | Link   *JavaScript HTML CSS MongoDB NodeJs*

- Full-Stack Web Application, built using MongoDB, Express, and Node.js for seamless backend functionality and deployed it on Render.
- CRUD Functionality, allowing users to manage listings and reviews with authentication and authorization.
- Cloudflare Integration for efficient image uploads and MongoDB Atlas for secure data storage.
- Interactive Map Display, powered by Mapbox, to showcase listing locations.
- Templating with EJS, ensuring dynamic and user-friendly page rendering.
- RESTful API Design, enabling efficient communication between the frontend and backend.

Weather forecast Web application | Link   *JavaScript HTML CSS*

- Weather web app using HTML, CSS, and JavaScript, enabling users to check real-time weather for cities globally.
- It features a user-friendly interface with search functionality and error handling for invalid inputs. Leveraging the OpenWeatherMap API.
- The app dynamically updates with temperature, humidity, wind speed, and weather condition images.

Football Analysis | Link   *YOLOv8 (Ball and Player Detection) SigLIP UMAP Kmeans*

- AI-Powered Soccer Analytics: Uses deep learning models for player detection, team classification, and spatial analysis.
- Models: YOLOv8 for player and key point detection, SigLIP for feature extraction, UMAP for dimensionality reduction, and KMeans for team classification.
- Model Performance: Player detection achieves 90.9% mAP, 89.2% precision, and 89.1% recall, while key point detection reaches 99.5% mAP, 99.8% precision, and 100% recall.
- Tactical & Spatial Analysis: Implements radar visualization, Voronoi diagrams, and ball path tracking to analyze player positioning, formations, space utilization, passing patterns, and shot accuracy.

HONORS & AWARDS

- working as TnP Database team head
- Solved 500+ problems on leetcode with a contest rating of 1650.