Gudivada Rohan Lal

+91- 9032373749   rohanlalgudivada4@gmail.com   LinkedIn   GitHub

Education

Amrita Vishwa Vidyapeetham	July 2021-July 2025
Bachelor's of Technology in Computer Science and Engineering (GPA: 8.67/10)	
Dr.KKR HAPPY VALLEY SCHOOL	June 2019-March 2021
MPC - CBSE (Percentage: 92.4%)	
Dr.KKR HAPPY VALLEY SCHOOLl	June 2018-March 2019
CBSE (Percentage: 94.4%)	

Projects

Brain Tumor Detection Using Machine Learning | Machine Learning, Flask, HTML, CSS

- Accelerated processing by 50-90% using simpler ML techniques (KNN) compared to complex DL models (CNN) for multiclass classification, including no-tumor cases. Utilized Synthetic Minority Oversampling Technique to boost minority class samples from 150 to 600.
- Achieved an 80-85% reduction in training time through PCA-based dimensionality reduction, optimizing hyperparameters to yield accuracy variations between -5% and +8%. Delivered a cost-efficient solution to enhance overall performance.
- Engineered a system that supported early tumor detection and enhanced decision-making for medical professionals, outperforming deep neural networks by 4%.

Crop Predictor | Logistic Regression, Machine Learning, Raspberry Pi Pico

- Achieved a high prediction crop recommendation accuracy of 92% using logistic regression by analyzing environmental factors like temperature, humidity, and pH.
- Developed an independent system using Raspberry Pi Pico, reducing costs by 75% and enabling real-time insights for local farmers.
- Led the creation of a predictive model for 15 crops, significantly improving agricultural decision-making.

GRE ANALYSER | DBMS

- Designed and executed a DBMS project titled "GRE Analyser," enabling users to create accounts, input their scores, and receive university recommendations based on the analysis of a five-year trend and current cutoffs.
- Applied ER DIAGRAM, HTML, SQL, CSS.

KIDS LEARNING APP | PHP,DBMS,MYSQL,HTML,CSS,JS,XAMPP

- Built a secure login system with 2-step verification using PHP Mailer and ensured secure storage of admin and user data via XAMPP, enhancing authentication, security, and data integrity.
- Streamlined content management through an intuitive admin dashboard for easy user administration.
- Implemented dynamic quiz modules using PHPExcel for engaging daily and weekly contests.
- Facilitated the management of multiple child accounts by parents, offering tailored educational experiences for each child.
- Integrated video playback and download features, enriching learning with multimedia content.

Skills

Programming Languages: Python, SQL, HTML, CSS, Basics of React Js

Technologies: MySQL

Concepts: Database Management, Machine Learning, Data Structures, Agile Methodology

Certifications and Achievements

Flipkart Grid 2.0: Certification of Participation, Level 3

Volunteer Experience

Gokulashtami, Anokha Tech Fest: Student Coordinator and Security Discipline member

National Service Scheme(NSS): Volunteer Member