Kasula Ranga Tanuj

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Profile

Aspiring software developer with a strong foundation in computer science, skilled in full-stack development, machine learning, and data analysis. Proficient in leveraging programming expertise to create scalable and efficient solutions for real-world problems.

Education

TKR College of Engineering and Technology *Oct 2021 – Present*
BTech in CSE(Data Science), CGPA: 9.04/10

Kendriya Vidyalaya Upper Camp, Dehradun *2019 – 2021*
Intermediate (10+2), Percentage: 95.6%

Vasavi Vidyaniketan *2018 – 2019*
SSC (Class 10), GPA: 10/10

Skills

Languages: Java, Python, JavaScript, R, C.

Web Development: HTML, CSS, PHP, React, Node, Tailwind, Figma.

Databases: MongoDB, SQL.

Tools: Git, GitHub, AWS, IBM Cloud.

Analytics: Tableau, Power BI, NumPy, Pandas, Scikit-learn.

Certifications

Google Data Analytics Professional Certificate	*Coursera*
Google Cybersecurity Professional Certificate	*Coursera*
AWS Cloud Practitioner Essentials	*Coursera*
Google Prompting Essentials	*Coursera*
Google AI Essentials	*Coursera*
Programming, Data Structures and Algorithms using Python	*NPTEL*

Work Experience

Intern in Artificial Intelligence and Machine Learning *(May 2024- Present)* *IIIT Hyderabad*

- Completed 6-month AI/ML training on model development, data preprocessing, and performance evaluation.
- Contributed to research projects on facial registration systems and biometric authentication using DL techniques.

Projects

Machine Learning System for Plant Disease Classification

- Developed an ML model to classify plant diseases with 90% accuracy using CNNs, processing more than 5,000 images for training and validation.

Industrial Analysis Dashboards with Power BI

- Designed interactive dashboards to analyze industrial metrics, improving decision-making efficiency by 25%.
- Utilized advanced Power BI features, including DAX queries and data modeling, for comprehensive reporting.

Machine Learning Models for Prediction

- Built regression and classification models for car cost prediction, mileage estimation, and credit risk analysis with up to 85% accuracy.Optimized models using hyper-parameter tuning and cross-validation to improve predictive performance.

News Application Using React

- Developed a dynamic news application using React and integrated the News API to fetch real-time updates.
- Designed a responsive interface and implemented state management for efficient data handling .

Publications

Dynamic Auto-Finetuning of Language Models Based on Confidence Driven Knowledge Integration November 2024

Global Remote RAM Sharing: A Novel Framework for Distributed Computational Systems December 2024