SARANYA G

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OBJECTIVE

To leverage strong analytical skills and a solid foundation in machine learning to develop predictive models and extract actionable insights from data. Eager to apply knowledge of algorithms, data processing, and model evaluation in a collaborative environment, while utilizing hands-on experience with modern frontend technologies to enhance user experiences and support innovative solutions.

EDUCATION

Bachelor of Computer Science, St.Joseph's College Of Engineering ,Chennai,TamilNadu   2022-2026
CGPA:8.95/10

High School, Vallalar Matriculation Higher Secondary School   2020- 2022
Score:90.3/100

SKILLS

Technical Skills: Pandas, NumPy,OpenCv,Machine Learning Algorithms,Javascript,NextJs
Programming Languages: Java-Proficient,C-Intermediate,python-Proficient
Leetcode: Solved 100 problems(Leetcode)
Skillrack: Solved adove 800 problems(skillrack)

CERTIFICATIONS

NPTEL swayam

- Achieved 64% in Programming in c course
- Achieved 61% in Data Base Management System
- Achieved 67% in Sofware Testing

Coursera

- Supervised Machine Learning:Regression and Classification
- Unsupervised Machine Learning
- Applied Machine Learning in Python

PROJECTS

Online Class Student Monitoring System: I developed a student monitoring system that detects distraction by analyzing facial expressions, gaze direction, head pose, and posture using AI techniques. The system integrates deep learning models and MediaPipe tools to accurately track student attention and automatically sends alerts to teachers via Zoom when distraction is detected for a sustained period. This project was implemented using Python, OpenCV, TensorFlow, and MediaPipe

Services Web Application Developed a responsive services website using React and Next.js, implementing dynamic search, filtering, and a custom 404 page. Integrated Framer Motion to add smooth page and component animations, and enhanced user experience with loading spinners and form validation.

Glass-Broken Detection System: Developed a system to detect broken glass in real-time using OpenCV and machine learning techniques. The project focuses on image processing to analyze visual input and identify instances of glass breakage. Achieved an accuracy of 85%, demonstrating the effective application of computer vision for safety and surveillance.

Student Study Hours and Score Prediction: Developed a linear regression model to predict student scores based on the number of study hours. The goal is to understand the relationship between study hours and exam performance and evaluate the model's accuracy in predicting scores . The linear regression model demonstrated how study hours correlate with student exam scores. The MSE and R^2 score helped assess the accuracy and effectiveness of the model, showing its ability to predict student performance based on study time. This analysis can guide strategies for improving study habits to enhance exam outcomes.

INTERNSHIPS

HUGE IT SOLUTION: Assisted in developing a modern web application interface using React and Next.js during my internship. Contributed to implementing interactive features such as animated transitions, real-time form validation, and dynamic content filtering. Enhanced the frontend with user-friendly loading indicators and responsive design practices. Collaborated with the team to ensure code quality, accessibility, and smooth deployment workflows.

CRESCENT INFOTECH: Worked on foundational machine learning tasks, including data preprocessing, model training, and evaluation. Gained hands-on experience with supervised learning algorithms like Linear Regression, Decision Trees, and Support Vector Machines. Used Python, Pandas, Scikit-learn, and Matplotlib for data analysis, model building, and result visualization. Also contributed to feature selection and performance tuning to improve model accuracy.