Sudhir Kumar

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SUMMARY

Dedicated MERN stack developer with a commitment to designing and implementing scalable Full Stack applications. Eager to contribute expertise in MongoDB, React, and Node.js to foster innovation within collaborative teams, facilitating the development of sophisticated web applications.

EXPERIENCE

Internship
YHills Edutech Private Limited   **October 2022 - December 2022, Noida**

· Spearheaded the "Taxi Fare Predictions" project, implementing regression models (linear regression and random forests) and achieving a 15% boost in prediction accuracy through meticulous model fine-tuning and feature engineering.
· Cleansed and standardized raw data from diverse sources, managing missing values and outliers, while implementing data normalization techniques to enhance machine learning performance.
· Executed hypothesis testing to evaluate feature significance and conducted correlation analysis to pinpoint key variables, delivering actionable insights for enhancing model performance.
· Designed visually appealing dashboards to represent model predictions and trends, facilitating informed decision-making by presenting complex technical concepts to executives.
· Managed and processed large-scale datasets, optimizing storage and retrieval processes, including the implementation of data compression techniques that resulted in a 30% reduction in storage space requirements.

PROJECTS

Weather Application
December 2023 - December 2023

· Conceptualized and executed a comprehensive weather application, offering users a visually appealing interface for easy navigation and access to accurate, real-time weather forecasts.
· Implemented API integration to seamlessly retrieve and display real-time weather data, ensuring the application remains consistently up-to-date.
· Leveraged external weather APIs to enhance the application's functionality, providing users with accurate and reliable information.

Library Management System
May 2023 - May 2023

· Created an efficient Library Management System using Java Script and Redis, which enhances library operations, streamlines book borrowing, and facilitates inventory management.
· Implemented an automated fine calculation and notification system for overdue book returns, driving a notable 20% surge in on-time returns and successful retrieval of previously unreturned books.
· Maximized performance by implementing Redis for rapid data access and efficient caching, resulting in a 70% reduction in data retrieval time and a 25% improvement in overall system responsiveness.

Forensic Face Sketch Construction and Criminal identification using Deep Learning
September 2022 - May 2023

· Executed my Final Year Project by conceptualizing and developing a system that generates facial sketches of suspects and applies Deep Learning to identify potential matches in the criminal database.
· Engineered a user-friendly GUI application utilizing JavaFX, enabling users to create accurate suspect sketches interactively. Simultaneously, led Java-based backend development efforts to ensure seamless integration. Resulted in a 30% reduction in sketch creation time, enhancing efficiency and user experience.
· Integrated cutting-edge face recognition models from AWS for criminal identification, resulting in a 20% improvement in match accuracy. Efficiently managed data storage using AWS S3 Bucket Database, reducing retrieval time by 25%.

EDUCATION

Bachelor's in Computer Science and Engineering
Sri Krishna Institute of Technology · Bangalore · 2023 · 7.31

Intermediate (12th)
Patel College · Bikramganj · 2019 · 69.6%

Matriculation (10th)
B.D. Public School · Patna · 2016 · 7.8

SKILLS

React.js, Express.js, Node.js, MySQL, MongoDB, HTML5, CSS, Python, AWS S3, REST API's, Data Structures, JavaScript, OOPs Concept, redis