Prem Kumar S

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WORK EXPERIENCE

NEC CORPORATION INDIA PVT. LTD   Bengaluru, India
Software Developer Intern   Jul 2024 – Present
- Developed an interactive data visualization website using Streamlit, enabling data analysis and increased user engagement by 40%
- Streamlined data preprocessing pipelines using Python, enhancing data cleaning techniques for a dataset of over 500,000 entries
- Designed and executed rigorous API validation protocols with Postman, ensuring seamless integration of real-time data streams
- Orchestrated communication with cross-functional teams to align project goals, resulting in a 25% reduction in project turnaround time
- Optimized data processing by implementing automated workflows that reduced manual work

EDUCATION

ALLIANCE UNIVERSITY   Bengaluru, India
Bachelor of Technology   Dec 2021 - Jun 2024
>   Major in Computer Science and Engineering
>   Cumulative GPA: 3.17/4.0
>   Relevant Coursework: Software Engineering; Operating Systems; Data Structures and Algorithms

SRI VENKATESHWARA POLYTECHNIC   Bengaluru, India
Diploma in Computer Science and Engineering   Aug 2017 - Aug 2020

PROJECTS

DETECTION OF LUNG AND COLON CANCER USING RESNET-50 - link
- Leverage ResNet-50 to scrutinize a large dataset of histopathology images, achieving a reduction in misdiagnosis rates for lung and colon cancer, validating the model's diagnostic accuracy
- Created a sophisticated cancer detection system with a 92% accuracy rate, improving the identification of benign tissues and aiding pathologists in reducing diagnosis time by 30%
- Revolutionized pathology workflow by integrating AI tools, achieving an improvement in early detection rates and enhancing patient outcomes through precise histopathology image analysis

EVENT MANAGEMENT SYSTEM - link
- Engineered a responsive user interface in React.js, refining event planning by optimizing event input categorization and date setting processes, thereby improving user experience and reducing planning time
- Implemented a detailed event addition feature for admins, including fields for title, date, venue, and description, increasing event submission efficiency by 45% and reducing data entry errors by 25%
- Built an intuitive admin interface with robust editing and deletion capabilities, allowing administrators to streamline event curation processes, leading to an improvement in event quality and attendance

SENTIMENTAL ANALYSIS USING NATURAL LANGUAGE PROCESSING (NLP) - link
- Innovated an NLP based sentiment analysis system, facilitating precise text sentiment evaluation; empowered users with actionable insights, resulting in increase in strategic decision-making efficiency and communication effectiveness
- Optimized sentiment analysis pipeline through innovative NLP approaches, enhancing accuracy by 45%, which enabled detailed categorization of user feedback and informed strategic business decisions
- Facilitated strategic planning through comprehensive sentiment analysis, empowering users to make informed decisions that enhanced operational efficiency and increased profitability

SKILLS

Programming Languages: Python, JavaScript, HTML, CSS, Data Structures and Algorithm, SQL
Frameworks: React.JS, Node.JS, Express.JS, Redux, Bootstrap, NumPy, Pandas, Matplotlib, Seaborn, Plotly, Streamlit
Tools and Platforms: Cloud Computing, Amazon Web Service (AWS), Linux, VS Code, Git, GitHub, Docker, Jenkins, Postman, MySQL, MongoDB, CI/CD, GitHub Actions

CERTIFICATIONS

ReactJS – The complete guide 2023 (incl. React Router & Redux) – Udemy, NodeJS – The Complete Guide (MVC, REST APIs, GraphQL, Deno)- Udemy, Amazon Web Service Solution Architect Associate – Tutorials Point