

Prem Kumar S

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WORK EXPERIENCE

NEC CORPORATION INDIA PVT. LTD

Software Engineer Intern

Bengaluru, India

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

Bachelor of Technology

Bengaluru, India

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

Diploma in Computer Science and Engineering

Bengaluru, India

Aug 2017 - Aug 2020

PROJECTS

AUTOMATED FILE COMPRESSION AND CLOUD UPLOAD SYSTEM (AUTOMATED BACKUP TOOL) - [link](#)

- Designed a comprehensive automated file management system using Python, reducing manual file handling by 2 hours per week through efficient compression and seamless uploads to a Windows shared drive and Google Drive
- Implemented file compression and cloud storage automation, reducing manual backup efforts by 80% by enabling seamless zip file creation, deletion of original files, and remote uploads
- Configured secure authentication mechanisms, integration Google Cloud credentials and windows shared drive access for efficient and secure file handling

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

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