NIKHIL VENKAT SAI REDDY BYREDDY

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WORK EXPERIENCE

Software Developer Internship (Full-stack) at RealPage | Hyderabad, India   February 2023 - August 2023

- Orchestrated end-to-end creation and launch of a marketplace web application and website using Angular JS, Spring MVC, Java, Java script and Rest API catalyzing a **50% surge in customer acquisition and user engagement**, offering diverse solutions.
- **Implemented and optimized API endpoints** for seamless integration between frontend and backend, enhancing performance and reliability and tailored services for property managers with 100% customer satisfaction, fostering a **25% business growth within 1 year**.
- Developed over **20 + features** for the UI and app, empowering property managers to streamline operations, resulting in significant time and cost savings.
- Enforced various coding standards and Testing protocols using JUnit, resulting in **a 30% enhancement in code readability and a 25% reduction in debugging time.**
- Led **a team of 5** in conducting thorough unit and integration testing of Rest APIs and UI /UX components, resulting in a 20% decrease in post-production errors.
- Actively contributed to Agile practices and SDLC, including sprint planning and daily stand-up meetings, ensuring full team engagement and delivering valuable insights for continuous improvement.

Summer Internship at Tele Paradigm Networks Ltd. | Hyderabad, India   September 2022 - January 2023

- Implemented a highly precise machine learning model leveraging Python, data cleaning, data collection , data analysis and Streamlit achieving 89% accuracy rate.
- Performed information retrieval and feature **extraction involving 6+ features using NO-SQL**, from an unstructured, semi-structured dataset and built a supervised Machine learning solution.
- Enhanced a responsive and intuitive user interface with a 30% overall improvement in client interaction and experience.

TECHNICAL SKILLS

Programming Languages - Java , Angular, Python , React, ,HTML , XML , C#, CSS , JSON , JavaScript , J-unit .
Frameworks – Spring , Spring boot , REST Framework , REST APIs .
Databases - MySQL , MS SQL PL SQL , PostgreSQL , Relational Database Management Systems .
Tools - Jira , Git ,AWS Cloud ,Power BI ,Docker , Streamlit , Post-man , Visual Studio , MS Office.
Data Science - Pandas , NumPy , Matplotlib , Scikit-learn , Statistics , Tensor flow , Mathematics.

EDUCATION

Texas Tech University, Lubbock, TX   December 2024
Master of Science (MS) , Computer Science | **GPA – 3.85/4.0**
Relevant Coursework: Analysis of Algorithms and Data structures , Computer Organization architecture, Advanced Database Management Systems, Software Project management , Artificial intelligence and Machine learning.

Neil Gogte Institute of Technology, Osmania University, Hyderabad, India   September 2023
Bachelor of Engineering (BE) , Information Technology
Relevant Coursework : Data Structures, Computer networking, Web Application Development, Software Engineering.

PERSONAL PROJECTS

Anomaly Detection in IOT Devices Model
- Deployed a deep learning anomaly detection model. Achieved 93% accuracy, reducing response time by 50%.
- Pioneered various deep learning techniques like Auto-encoder, Variational Auto-encoder,Seq2Seq model, Bi-directional generative adversarial network for a 40% reduction in false positive alerts.

Clinic-Connect: Hospital App ointment System
- Focused on intuitive UI/UX design using HTML, CSS, Java-Script , PHP with many components embedded in the website with smooth page to page transition.
- **Utilized SQL for database management** and ensuring data integrity and performance, worked on writing robust queries and also hashing for the passwords to maintain authentication, authorization, and encryption.
- Achieved a significant 50% reduction in administrative workload for healthcare staff, allowing them to focus on patient care.

Book Recommendation System
- Innovated a book recommendation system utilizing machine learning (Random Forest, KNN, Decision Tree) that significantly optimized end-user experience, attaining a 90% accuracy and a 25% boost in book discovery through personalized recommendations.
- Emphasized collaborative filtering technique and clustering for better and accurate results.

Autonomous Driving Vehicle Simulation.
- Developed a 2D self-driving car visualization using JavaScript, implementing machine learning techniques and neural networks to optimize routes and prevent collisions.

CERTIFICATIONS

- Neural networks and Deep learning, Deeplearning.Ai
- The Joy of computing using Python-NPTEL.
- Business English communication (BEC).