Prashanth Dussa

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Education

Arizona State University, Ira A. Fulton Schools of Engineering **May 2024**
Master of Science in Computer Science *GPA: 3.87*
Relevant Coursework: Mobile Computing, Knowledge Representation, Information Assurance and Security, Software Verification Validation and Testing, Software Project Process and Quality Management, Software Design, Software Security.

DR BR Ambedkar National Institute of Technology Jalandhar, India **May 2021**
Bachelor of Technology in Computer Science *GPA: 3.5*

Skills Summary

Languages JAVA, Python, C/C++, JavaScript, TypeScript, HTML, CSS, SQL, Shell Scripting
Frameworks React, Angular, Node.js, Django, Next.js, Spring, REST; MySQL, OracleSQL, PostgreSQL, MongoDB, JUnit, JQuery
Tools AWS EC2, S3, EBS, IAM, Lambda, Postman, GIT, Firebase, GitHub, Android Studio, Maven, MVC, Linux/Unix
Certifications Linux Shell Scripting: Udemy, Perl5: Udemy, MySQL and Database Design: Udemy, React: Scrimba, Springboot: Udemy

Professional Experience

eClerx Services Limited **June 2021 - June 2022**
Senior Analyst *Pune, India*
- Spearheaded the seamless integration of Asset Control software with **SQL** database management systems, effectively bridging the gap between disparate data sources and significantly streamlining financial data processing operations, enhancing efficiency and accuracy.
- Optimized client data using SQL commands to filter redundant information, and resolve invalid/null data issues, achieving a 40% reduction in errors. Enhanced data accuracy for informed business analysis and decision-making.
- Revamped the Asset Control Environment by monitoring and resolving critical back-end issues. Leveraged **Python** and Linux commands in **JIRA** to achieve a remarkable 30% decrease in system downtime, enhancing overall system stability.
- Implemented automated data validation checks using Python scripts, reducing manual intervention and ensuring data integrity throughout the system. This resulted in a 60% reduction in data discrepancies and improved overall reliability.
- Conducted extensive training sessions for internal teams, covering the utilization of Asset Control software features, SQL querying techniques, and Python scripting for backend tasks which resulted in a notable 50% increase in team productivity and proficiency.
- Served as the first point of contact for US and UK-based financial market clients, ensuring client satisfaction and prompt issue resolution.

Fresh Prints **December 2020 - May 2021**
Full Stack Intern *Hyderabad, India*
- Spearheaded the development of responsive and interactive user interfaces using **React.js**, ensuring seamless navigation and optimal user experience across multiple devices and browsers, while adhering to modern design principles and accessibility standards.
- Collaborated closely with backend developers to integrate frontend components with **Spring Boot** RESTful APIs, facilitating efficient data exchange and enhancing application functionality, while ensuring compatibility with industry best practices and standards.
- Implemented robust authentication and authorization mechanisms using **JSON Web Tokens** (JWT) and Spring Security, ensuring secure access to sensitive data and resources, while providing a seamless and user-friendly login and authentication experience for end users.
- Conducted thorough testing and debugging of both frontend and backend components, identifying and resolving issues to maintain application stability and reliability throughout the development lifecycle, while employing agile methodologies.

Projects

Credit Card Default Prediction | *Statistical Machine Learning* **April 2024**
- Led the conceptualization and implementation of predictive models aimed at mitigating credit card defaults, employing a diverse range of machine learning methodologies including Logistic Regression, K-Nearest Neighbors, and Deep Neural Networks.
- Orchestrated the application of sophisticated feature selection, preprocessing, and under-sampling techniques, meticulously refining model performance metrics. Notably, Logistic Regression yielded a remarkable accuracy rate of 91% and an F1 score of 0.6296.
- Executed comprehensive feature selection and preprocessing strategies, focusing on critical factors such as payment details, credit availability, and demographic attributes which contributed to the refinement of model efficiency and accuracy.
- Collaborated closely with cross-functional team members to conduct a thorough evaluation and comparative analysis of various machine learning models. Through meticulous testing and validation, identified Logistic Regression as the most efficient approach, exhibiting exceptional accuracy, precision, and F1 scores, thus ensuring the development of reliable credit card default prediction systems.

Face Mask Detection System | *Machine Learning* **December 2020**
- Engineered an advanced face mask detection system by harnessing the power of deep learning algorithms implemented with Keras, TensorFlow, and numPy which effectively slashed manual monitoring efforts by an impressive 80%.
- Conducted rigorous validation procedures, resulting in the achievement of an accuracy rate of 95% in real-world scenarios, which affirmed the reliability and precision of the outcomes generated, ensuring confidence in the effectiveness of the implemented solutions.

Home Rentals | *Web Development* **August 2020**
- Developed a highly functional website for tenants, revolutionizing the house search process and simplifying owner registrations.
- Enhanced front-end architecture utilizing a combination of HTML, CSS, JavaScript, and jQuery to deliver a seamless user experience.
- Spearheaded the development of a cutting-edge back-end architecture using Node.js and MongoDB, enabling streamlined data storage and retrieval, resulting in a 30% reduction in server processing time and revitalizing overall system performance
- Implemented responsive design principles to ensure best user experience across devices, making the website accessible and user-friendly.