

Prashanth Dussa

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Portfolio: <https://prashanthdussa.netlify.app>

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	ReactJS, ExpressJS, Angular, NodeJS, Django, NextJS, Spring, REST; MySQL, PostgreSQL, MongoDB, JUnit, JQuery
Tools	AWS EC2, S3, EBS, IAM, Lambda, Postman, GIT, VS Code, GitHub, Jira, Confluence, Agile, Scrum, 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.
- * Developed frontend components and services using **React** and **Next.js** for client projects, enhancing user interface responsiveness and maintainability and supporting complex business requirements efficiently.
- * 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 **ReactJS**, 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.
- * Integrated continuous integration processes with tools like GitHub Actions, automating and streamlining development and deployment.
- * Collaborated with backend developers and cross-functional teams to integrate **APIs**, ensuring seamless data exchange and functionality.
- * 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.