

SAI RAM DASARAPU

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EDUCATION

George Mason University (GPA: 3.73/4)

Masters, Computer Science

Fairfax, Virginia

Aug 2022 - May 2024

JNTUH

Bachelors, Computer Science

Hyderabad, India

Aug 2017 - Jul 2021

TECHNICAL SKILLS

Programming Languages: Python, JavaScript, C#, Java, C.

Web Development and Design: HTML, CSS, Bootstrap, Tailwind, ReactJS, Node.js, Express.js, Spring Boot.

Databases: MySQL, MongoDB.

Other: AWS, Git, GitHub, Docker, Kubernetes, Machine Learning, Postman.

PROFESSIONAL EXPERIENCE

Infosys

Software Engineer

Hyderabad, India

Feb 2022 - Jul 2022

- Developed scalable backend services for a food delivery platform using C#, .NET, and MySQL, ensuring high performance and reliability.
- Created Restful APIs to manage user authentication, order processing, and real-time tracking, reducing order processing time by 25%.
- Optimized database schema and queries in MySQL, improving data retrieval speeds by 40% and supporting high traffic loads, ensuring robust performance under peak conditions.

PROJECTS

Student Survey Application (React, Spring Boot, MySQL, AWS EC2, Docker, Kubernetes)

- Created a student survey application using React, Spring Boot, MySQL, and Docker, with 5 API endpoints.
- Automated build and deployment with Jenkins on AWS EC2, deploying Docker images to Docker Hub and Kubernetes with 3 replicas managed by Rancher.
- Reduced deployment time by 50% and ensured 99.9% application up-time on a Kubernetes cluster on AWS EC2, with secure access via Kubernetes services and Rancher API tokens.

Customer Churn Prediction (Machine Learning, sci-kit learn, Pandas, Stacking Ensemble, Feature Selection)

- Implemented a customer churn prediction model using machine learning techniques on a dataset with over 100 attributes and 100k instances.
- Employed Random Forest, Decision Tree, and XGBoost models with data preprocessing and feature selection, followed by a stacking ensemble to boost accuracy.
- Achieved a 5% increase in prediction accuracy and emphasized continuous model monitoring and fine-tuning for ongoing improvement.

Expense Tracker (React, Tailwind CSS, Chart.js, Node.js, MongoDB, JWT)

- Engineered a full-stack personal finance tracker using React.js and Node.js with MongoDB, enabling users to manage income, expenses, and view financial summaries, resulting in a 20% improvement in financial tracking efficiency.
- Implemented secure user authentication with JWT, resulting in a 95% reduction in unauthorized access and enhancing overall application security.
- Integrated Chart.js for dynamic data visualization, leading to a 40% improvement in user satisfaction with clear and interactive financial trend analysis.