SAISRI VISHWANATH

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EDUCATION

Syracuse University, Master of Science in Computer Science (GPA: 3.7/4) | MERIT SCHOLAR **Jan 2023 - Dec 2024**
Coursework: Statistics, Machine Learning, Natural Language Processing, Reinforcement Learning, Large Language Models, Data Mining and Analytics

PES University, Bachelor of Engineering in Electronics and Communication (GPA: 9/10) | MERIT SCHOLAR **Aug 2017 - May 2021**
Coursework: Mathematics, Algorithms, Object-Oriented Programming, Operating Systems, Artificial Neural Networks, Deep Learning, Data Science

TECHNICAL SKILLS

- **Programming and Framework:** Java, Python, C, HTML, CSS, JavaScript, React, Spring Boot, NodeJS, Bootstrap
- **Databases and Messaging:** SQL (MySQL, Oracle, PostgreSQL), NoSQL (MongoDB), Apache Kafka, Postman
- **Cloud:** AWS (EC2, Lambda, RDS, S3)
- **DevOps:** CI/CD, Docker, Git, GitHub Actions, Jenkins, Kubernetes, Terraform

PROFESSIONAL EXPERIENCE

Software Engineer - Syracuse University **Syracuse, NY** **Feb 2025 - Present**

- Built an LLM-powered research assistant for easy access to university research documents by combining semantic search (BERT + cosine similarity), RAG architecture (OpenAI + Pinecone), and contextual summarization via prompt engineering, boosting retrieval precision by 30%
- Applied NER and sentiment analysis to extract key entities and evaluate user feedback, enhancing contextual relevance and response accuracy
- Developed and deployed the backend for the LLM research assistant using FastAPI, creating API endpoints for user queries and information retrieval, and containerized the application with Docker and deployed on AWS EC2
- Built a mental health risk scoring model using psychological survey data and behavioral logs, applying regression techniques to predict wellness scores with an Mean Absolute Error (MAE) of 0.42, enabling early intervention for at-risk students

Associate Developer - Oracle **Bangalore, India** **July 2021 - Dec 2022**

- Developed and enhanced core functionalities within an Oracle Human Resource Application System using Java, Spring Boot microservices, and Oracle Database which significantly enhanced application performance and stability, ensuring a seamless user experience
- Engineered, integrated, and validated over 20 REST APIs, improving application functionality and user experience by implementing industry best practices, strong authentication mechanisms, and comprehensive data validation, with a focus on consistent API response structures
- Executed all phases of the Software Development Life Cycle(SDLC), from requirements to development, code reviews, testing, and deployment, leading to a 30% increase in stakeholder engagement
- Debugged and resolved critical production issues, notably reducing production bugs by 30% through thorough code reviews and the implementation of best practices, while consistently resolving deployment issues to maintain a 99% uptime
- Optimized 15+ SQL queries, leading to a remarkable 50% reduction in data retrieval time and enabling faster data access for users
- Automated deployment and API testing workflows via Jenkins, reducing regression cycles by 50% and accelerating release velocity for the platform
- Onboarded and trained 40+ new hires on Oracle SQL and Java, elevating overall team proficiency and readiness across the teams

Software Engineer - Publicis Sapient **Bangalore, India** **Jan 2021 - June 2021**

- Contributed to the development of a full-stack ecommerce vehicle company platform using React and Bootstrap for the frontend and Spring Boot with MongoDB for the backend and kafka for event processing
- Led the implementation of unit testing with JUnit and frontend build optimization with Webpack, consistently achieving 90%+ code coverage and collaborated with QA teams to orchestrate comprehensive integration
- Collaborated in an Agile environment using GitHub for version control and sprint-based development, enabling faster feature iterations and improving team delivery velocity by 35%

PROJECTS

Meeting Application - HTML, CSS, Javascript, Redux

- Designed and implemented a meeting application using Model-View-Controller (MVC) architecture to create, filter, delete meetings, and manage members, resulting in a maintainable system that streamlined coordination
- Utilized SASS to build a responsive, visually appealing, and mobile-friendly user interface for the meetings application, while following SEO best practices, which accelerated UI development and improved application performance by 30%

Flight Delay Prediction - ML, Python, Keras, Tensorflow

- Engineered a predictive model for flight delays using BTS and weather datasets, enhancing accuracy by **25%** through comprehensive data collection, preprocessing, and exploratory data analysis (EDA) to identify key delay factors
- Designed and implemented a stacking ensemble model combining Gradient Boosting, Logistic Regression, and PCA for dimensionality reduction, leveraging GridSearchCV for hyperparameter optimization, to predict airline arrival times with a predictive accuracy of 0.6