Anusha Avulapati

Stony Brook, New York (willing to relocate)
934-451-9988 anusha.avulapati@stonybrook.edu LinkedIn Github Portfolio

EDUCATION

Stony Brook University **CGPA - 3.8/4** **Aug 2023 - Dec 2024**
Master of Science in Computer Science *Stony Brook, New York*
Coursework: Database Systems, Computer Vision, Data Science, Smart Energy in the Info Age, Machine Learning

Vellore Institute of Technology **CGPA - 9.1/10** **Jul 2017 - Jun 2021**
Bachelor of Technology in Computer Science *Vellore, India*
Coursework: Algorithms, Data Structures, Object Oriented Programming, DBMS, Web Development, Software Engineering, Operating Systems.

SKILLS

Programming: Java, JavaScript, TypeScript, Object Oriented Programming, Data Structures, Python, C++, C#, XML
Web Technologies: ReactJS, ExpressJS, NodeJS, HTML5, CSS, XML, Rest API, AngularJS, Spring Boot, Bootstrap, PHP
Databases & Cloud: Mongo DB, MySQL, IBM DB2, AWS(Amazon Web Services), Docker, Jenkins
Tools & Frameworks: GIT, Azure Devops, Visual Studio Code, IntelliJ, GitHub, MS Office, Apache Spark, Postman

RELEVANT EXPERIENCE

Shell India Private Limited **Oct 2021 - Aug 2023**
Software Engineer *Bangalore, India*
- Developed a MERN stack web application to enable users to create custom hierarchies and perform CRUD operations, boosting data conversion efficiency by 20%.
- Led the development of the application's core functionality, achieving 80% faster automatic XSLT creation.
- Collaborated with backend engineers and QA teams, reducing project delivery time by 30% through efficient coordination and issue resolution.
- Designed and implemented an enhanced UI layout, improving application visualization and user experience.
- Created resilient CI/CD pipelines using Azure DevOps, reducing deployment time for over 250 scripts by 30%.
- Planned, wrote, and debugged web applications with a 90% accuracy rate, adhering to industry standards and best practices.

Stony Brook University **Jan 2024 - Dec 2024**
Research Assistant (Full Stack Developer) *Stony Brook, NY*
- Built a full-stack Parkinson's Annotation Tool with React.js and Flask, integrating motion sensor data with patient videos to enhance diagnosis and treatment planning.
- Added H5 to CSV conversion, streamlining data handling processes and enhancing accessibility for 100+ patient records.
- Developed an advanced data annotation tool leveraging Plotly.js, empowering healthcare professionals to interact with complex datasets; tool adoption led to improved data accuracy, with over 300 critical observations tagged for further analysis.

Sailotech Private Limited **May 2019 - Jun 2019**
Data Analyst Intern *Hyderabad, India*
- Analyzed a dataset of 10,000+ online retail transactions using RFM Analysis to segment customers into actionable categories such as Best Customers, Loyal Customers, and Lost Customers.
- Enhanced marketing precision by enabling targeted strategies, improving potential engagement rates by an estimated 20%.
- Generated reports and presentations using QlikSense software, uncovering 5 key customer behavior patterns from retail transaction data to help businesses better understand customer behavior.

PROJECTS

ConvoViz | *ReactJS, Typescript, ChatGPT, HTML, CSS, Python, Docker*
- Implemented a data visualization platform leveraging ChatGPT's natural language capabilities to enable conversational dataset queries and generate insightful visualizations, enhancing accessibility to complex data trends.

Automated Medical Note Processing for Maternal Care | *Python, BERT, NLP, LLMs*
- Created an AI-powered system using NLP with BERT and the Gemini API to extract and streamline critical attributes from hospital notes, enhancing accessibility to structured medical data for maternal care analysis.

Veterinary Management System | *ReactJS, NodeJS, ExpressJS, MySQL*
- Built a Veterinary Management System using React, Node.js, Express, and MySQL, enabling efficient pet and owner record management, vaccination tracking, appointment scheduling, and report generation with role-based access control.

PUBLICATIONS

- **Published** "IoT Embedded Sensor based Cloud Agent System for Sudden Infant Death Syndrome Monitoring and Analysis using Machine Learning" in *International Journal of Engineering Research & Technology (IJERT).*