

# ANUSHA AVULAPATI

Stony Brook, New York (willing to relocate)

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## 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, 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)*.