

# Sai Nikhitha Madireddy

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## SUMMARY

Crafting high-quality, scalable applications by blending full-stack development, machine learning expertise, and optimized database solutions.

## EDUCATION

### California State University, Los Angeles

Los Angeles, CA

Master of Science in Computer Science | GPA: 3.84/4.00 | Dean's List – Honors (Top 10%)

May 2025

### MLR Institute of Technology

Hyderabad, India

Bachelor of Technology in Computer Science | GPA: 3.58/4.00

July 2022

## WORK EXPERIENCE

### California State University, Los Angeles

Los Angeles, CA

#### Graduate Research Assistant

Jan 2025 – Present

- Performed extensive text preprocessing and implemented cutting-edge transformer-based models for sentiment analysis.
- Designed and executed experiments using UMAP and HDBSCAN for semantic analysis and visualization.
- Significantly enhanced the accuracy of emotion and thematic categorization in diverse literary works and datasets.

### California State University, Los Angeles

Los Angeles, CA

#### Graduate Student Assistant

Oct 2023 – May 2025

- Achieved a 95% success rate in resolving ServiceNow tickets, delivering technical support for software, hardware, and network issues.
- Optimized IT workflows, reducing ticket resolution time by 30% and improving web services performance by 40%.
- Ensured security compliance while enhancing system efficiency and user satisfaction.

### Tata Consultancy Services

Hyderabad, India

#### Systems Engineer

Aug 2022 – Aug 2023

- Built a full-stack web app with AngularJS, ReactJS, and Node.js, ensuring cross-platform compatibility.
- Enhanced database performance by 30% using PostgreSQL and Oracle SQL on Azure.
- Collaborated with teams to improve app functionality, performance, and user experience.

### EPAM Systems

Hyderabad, India

#### Junior Software Engineer

Jan 2022 – June 2022

- Developed scalable software with Python, Java, JavaScript, ReactJS, AngularJS, and Node.js, enhancing performance and UX.
- Worked in Agile teams using Git, VSCode, and MySQL for version control, efficient development, and database optimization, ensuring maintainable, high-quality, and robust applications.

### Virtusa Consulting Services Private Limited

Hyderabad, India

#### Software Engineer Intern

Aug 2021 – Dec 2021

- Created optimized software with Python, Java, and JavaScript, focusing on algorithms, debugging, and problem-solving in Agile teams.
- Experienced in SDLC phases: analysis, development, testing, and deployment. Delivered scalable, high-quality solutions on time, ensuring efficient project completion.

## PROJECTS

### Bibliotherapy - Using Project Gutenberg

Jan 2025

- Developed AI for Project Gutenberg recommending mental health books using BERT and LLM emotion analysis.
- Improved NER with UMAP, PhraseMatcher. Built emotion-based character recommendations using TF-IDF, HDBSCAN, FAISS.

### Meal Planner Application (Using Spoonacular API)

Dec 2024

- Built a Meal Planner App with Node.js, Express.js, MongoDB, and Svelte.js (Vite), using Spoonacular API.
- Created JWT-authenticated RESTful APIs, Mongoose schemas, and a responsive front-end for seamless UX.

### Heart Disease Prediction

June 2024

- Developed a heart disease prediction model using Python, leveraging machine learning algorithms, Scikit-learn, and Pandas for data preprocessing, feature selection, hyperparameter tuning, and advanced visualizations to optimize prediction accuracy.

## TECHNICAL SKILLS

**Languages:** C, C++, C#, JavaScript, TypeScript, Python, Java.

**Frameworks & Libraries:** ReactJS, AngularJS, NextJS, Node.js, Express.js, Bootstrap, Tailwind CSS.

**Databases:** MongoDB, MySQL, PostgreSQL, Oracle RDBMS, Oracle SQL.

**Web & API Development:** HTML, CSS, GraphQL, REST, Vite, Postman.

**Machine Learning & Tools:** TensorFlow, Pandas, NumPy, Scikit-learn, Recommendation Systems, OpenCV.

**Cloud, DevOps & Environments:** Microsoft Azure, Git, VSCode, Android Studio, Windows, Linux, Microsoft Office, Google Suite.