

Chennupati Sree Nihitha

sreenihithachennupati@gmail.com | +91 9502656054|

[LinkedIn](#)

WORK EXPERIENCE

LV Prasad Eye Institute

SDE Intern

Hyderabad, Telangana

Jan 2024 - July 2024

- Improved the front-end of patient assessment tools to enhance usability and accessibility.
- Developed a responsive design system for clinical applications ensuring cross-device compatibility.
- Built a tool for real-time analysis of patient data for dry eye condition monitoring.

Swecha

SDE Intern

Hyderabad, Telangana

June 2022- July 2022

- Designed user interfaces using Figma and implemented educational tools using Tauri and Electron frameworks.
- Worked on a Linux distribution optimized for low-spec hardware to support under-resourced students.

EDUCATION

BIRLA INSTITUTE OF TECHNOLOGY AND SCIENCES

Masters of Science in Mathematics with Minor in Computing and Intelligence

Hyderabad, Telangana

Nov 2020 - July 2024

Cumulative GPA : 6.53/10

Electives: Data structure and algorithms, Object Oriented Programming, Artificial Intelligence, Machine Learning, Lang C, Blockchain Technology.

- Nucleus Member of Brindavanam Telugu Samithi, Logisitics Manager of Committee of Students for Sports Activities & Core Member of Department of Publicity & Public Relations.
- Volunteered in National Service Scheme(NSS) & Nirmaan organization every month to facilitate mentorship and teaching programs for 112 students from surrounding villages near BITS Hyderabad Campus.

PROJECTS

Fake News Detection using Machine Learning

- Implemented a hybrid ML model (RNN, SVM, Random Forest) with NLP to detect fake news.
- Achieved high F1-scores across diverse datasets, demonstrating strong generalization capability.

Empirical Software Engineering Study

- Used NASA defect datasets to compare model performance.
- Identified Logistic Regression as the top model for reliability, achieving up to 92% accuracy.

Explainable AI: A Conceptual Study

- Explored methods like white-box models, feature-based explanation tools.
- Evaluated practices for building fairness and transparency into AI systems.

Scalable URL Shortener

- Built a URL shortening service using Java, Spring Boot, Redis, and MySQL.
- Integrated Redis caching (~60% DB hit reduction) and implemented features like rate limiting, expiration logic.
- Dockerized and unit-tested the application with 90%+ test coverage.

Backend for Ride-Sharing Platform

- Developed microservices for trip lifecycle management using Spring Boot and Redis.
- Applied geospatial logic for ride matching and ensured concurrency handling with Kafka integration. Built REST APIs with clean architecture and idempotent behavior.
- Fake News Detection using Machine Learning

SKILLS & EXPERTISE

Languages: Java, Python, C, C++, SQL

Frameworks & Tools: Spring Boot, Redis, Docker, Postman, Selenium

Web Technologies: HTML, CSS, Bootstrap, JavaScript

Technical Skills: REST API Development, Debugging, Automation

Other Interests

Avid reader of fiction with a passion for discussing literature, often complete novels within hours.