GOPASANA LAVANYA

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Education

Sasi Institute of Technology and Engineering   Nov 2021 – May 2025
Bachelor of Technology in Computer Science, CGPA : 8.35/10   *Tadepalligudem, Andhra Pradesh*

Relevant Coursework

- Python Programming
- Data Structures
- Artificial Intelligence
- Operating Systems
- Software Methodology
- Database Management
- Frontend Technologies
- Computer Networks

Experience

Codegnan Destination   Jul 2025 – Present
Python Full Stack Trainee   *Hyderabad, Telangana*

- Built an interactive **University Management System** using **Python OOP** and **Streamlit** to manage colleges, students, and teachers with full CRUD functionality.
- Applied **inheritance** and **encapsulation** to design modular, scalable class structures and implemented **real-time UI updates** via Streamlit session state.
- Developed a **virtual ATM simulator** using **Streamlit**, enabling user signup, login, balance check, deposit, withdrawal, and transaction tracking.
- Implemented **secure state-based navigation** and **in-memory data persistence** to manage multiple accounts and transaction histories dynamically.

BharatIntern   Oct 2024 – Dec 2024
Front End Developer Intern   *Remote*

- Engineered a scalable and responsive web front-end for a fictional SaaS service using **React.js and styled-components**, integrating dynamic features to enhance user engagement.
- Created a BMI Calculator using **React Hooks** for real-time calculations without page reloads.
- Collaborated with team members using **version control systems** such as Git to organize modifications and assign tasks.
- Implemented smooth **CSS transitions** and scroll-triggered animations, increasing UI interaction rates by **30%** and improving visual appeal across devices.

Projects

University Management System | *Python OOP, Streamlit*   Sep 2025 – Oct 2025

- Developed an interactive **University Management System** using **Python OOP principles** (inheritance, encapsulation, polymorphism) to manage students, teachers, and colleges efficiently.
- Designed scalable data structures and integrated **class-based relationships** between entities (Person → Student/Teacher/College) for modular and maintainable architecture.
- Implemented **data persistence and validation logic**, ensuring error-free input handling and real-time UI updates during record creation, deletion, and display.

QuizCraft (React-based Quiz Application) | *React.js, HTML, CSS*   Jul 2025 – Aug 2025

- Built an interactive quiz application using **React.js** with modular and reusable UI components.
- Managed complex app logic and state transitions efficiently using the **useReducer** and **useEffect** hooks.
- Integrated **JSON Server** to simulate a backend API for fetching and managing quiz questions.

Interactive Movie Search and Watchlist React Application | *React.js, HTML, CSS*   May 2025 – June 2025

- Developed a responsive **React.js** interface integrating the **OMDb API** for real-time movie search and watchlist creation.
- Implemented user ratings, search filters, and watchlist persistence using **localStorage** for enhanced user experience.
- Created reusable custom hooks, improving code modularity and reducing development time by **25%**.

Technical Skills

Languages : Python, JavaScript, HTML, CSS
Frameworks & Libraries : React.js, Streamlit
Databases : SQL
Version Control & Tools : Git, GitHub, VS Code, Docker

Certifications

SQL (Basic) Certificate, HackerRank   Aug 2025
Programming Essentials in Python, Cisco Networking Academy   Jun 2024