

DIVYA PONNURU

Hyderabad, Telangana, India

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PROFESSIONAL SUMMARY

Backend Developer with hands-on experience in Python, Flask, and SQL, building **scalable, full-stack web applications**. Skilled in **RESTful API design, database architecture, authentication & session management, and CRUD operations**. Proficient in deploying applications on **Render and Railway**, optimizing back-end performance, and writing clean, maintainable code. Strong problem-solving skills, collaborative mindset, and a passion for delivering innovative software solutions. Seeking **backend development or software engineering internship opportunities** to contribute to real-world projects.

EDUCATION

Vivekananda Degree and PG College, Hyderabad, Telangana

Bachelor of Computer Applications (BCA)

Expected Graduation: June 2026

Affiliated to Osmania University

Relevant Coursework: Data Structures, Algorithms, Database Management, Web Development, Software Engineering

Academic Achievement: Topper for 3 consecutive semesters

TECHNICAL SKILLS

Programming Languages : Python

Databases & Query Languages : SQL(MySQL), SQLite, PostgreSQL

Frameworks : Flask

Tools : Git, GitHub, VS Code

Deployment : Render , Railway

Core Concepts : REST API development, Full-stack web development, Authentication & sessions, CRUD operations, API integration, Problem-solving

TECHNICAL PROJECTS

AI CROP ADVISOR

[Live Demo](#) | [GitHub](#)

– Tech Stack: Python, Flask, HTML, CSS, JavaScript, GROQ API, SQL

– Developed a full-stack AI-powered web application to recommend crops and estimate profits based on soil type, season, current crop, water availability, and user inputs

– Implemented secure user authentication with login, registration, and personalized crop history management

– Enabled downloadable AI-generated reports in PDF format with multi-language support, accessible on both mobile and desktop

– Built interactive dashboard, home, and “How it Works” pages with dynamic charts for crop history visualization

– Designed responsive, mobile-first interface with Light/Dark mode and custom background images for enhanced user experience

- Integrated functionality to delete crop history and provide users the option to use AI-generated recommendations or manual inputs
- Database deployed on Railway; delivered detailed explanations including soil score, profit estimation, and crop suitability, providing actionable insights for users

GPA & CGPA Calculator (Flask Web App)

[Live Demo](#) | [GitHub](#)

- **Tech Stack:** Python, Flask, HTML, CSS
- Developed and deployed a Flask-based web application to calculate semester-wise GPA and overall CGPA based on academic credit rules
- Implemented logic to process theory and practical grades using predefined academic credit rules
- Designed a user-friendly interface with dynamic form handling and result rendering
- Deployed the application on Render for public access and testing

Task Management Web Application (Flask)

[Live Demo](#) | [GitHub](#)

- **Tech Stack:** Python, Flask, SQLite, HTML, CSS
- Developed a secure task management web application with user authentication and session handling
- Implemented full CRUD functionality to create, update, prioritize, complete, and delete tasks
- Designed and integrated SQLite database schema for efficient task storage and retrieval
- Ensured data security through session-based authorization and user-specific data isolation
- Deployed the application on Render for real-time access and usability testing

HOBBIES & INTERESTS

Solving logical and analytical problems, exploring backend development concepts, learning new technologies, contributing to real-world projects