

# DIVYA PONNURU

Hyderabad, Telangana, India

[divya.ponnuru625@gmail.com](mailto:divya.ponnuru625@gmail.com) | [LinkedIn](#) | [GitHub](#) | [Portfolio](#)

## PROFESSIONAL SUMMARY

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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

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**Vivekananda Degree and PG College, Hyderabad, Telangana**

**Bachelor of Computer Applications (BCA)**

**Expected Graduation: August 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

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<b>Programming Languages :</b>	Python
<b>Databases &amp; Query Languages :</b>	SQL(MySQL), SQLite, PostgreSQL
<b>Frameworks :</b>	Flask
<b>Tools :</b>	Git, GitHub, VS Code
<b>Deployment :</b>	Render , Railway
<b>Core Concepts :</b>	REST API development, Full-stack web development, Authentication & sessions, CRUD operations, API integration, Problem-solving

## TECHNICAL PROJECTS

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### 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**

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