

Sai Deexith Musham

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Summary

Final-year B.Tech student in Computer Science and Engineering, with strong proficiency in Python, SQL, and full project development. Experienced in building real-world applications, like an AI-powered agriculture chatbot (GrowTech) and a smart crop advisor, using CLI and data filtering. Skilled in problem-solving, API integration, and backend development, with hands-on knowledge of Flask, Git, and MySQL. Eager to contribute to impactful projects in a dynamic tech environment.

Skills

Programming Languages

- Python, SQL, HTML, CSS



Frameworks & Tools

- Flask, Bootstrap, Git, GitHub, MySQL, and VS Code

Core Skills

- Problem solving, logic building, API integration, CLI development, debugging, version control (Git)

Technologies Used in Projects

- OpenAI API, OpenWeather API, Pandas, CSV and File Handling, JSON, Geolocation API

Soft Skills

- Self-learner, team collaboration, communication, time management

Projects

April 2025 to
April 2025

Self Project (NxtWave Program)

Warangal, India

Developer Intern

- **Developed a Python-based crop recommendation system as part of the NxtWave program.**
- Implemented CLI logic to recommend crops based on soil, season, rainfall, and pH.
- Used pandas for data filtering and error handling, and published project on GitHub.
- Strengthened core Python skills and practiced real-world logic building.
- **Developed an AI-powered agriculture chatbot named GrowTech using Python, Flask, and OpenAI API.**
- Integrated weather-based crop recommendations, pest control advice, and voice input support.
- Built a fully responsive multi-page website with HTML, CSS, JavaScript, Bootstrap, and dynamic chatbot UI.
- Connected chatbot to real-time APIs (OpenWeather, Geolocation) and handled user authentication with MySQL.
- Published the project on GitHub and presented as a major academic submission.

April 2025 to
April 2025

Self Project (NxtWave Program)

Warangal, India

Portfolio Website

Portfolio Website

Tech Stack: HTML, CSS, JavaScript Bootstrap

Description:

Created a personal portfolio website to showcase projects, skills, and achievements with a clean, modern design and user-friendly navigation.

Key Features:

- **Homepage:** Highlights your name, tagline, and call-to-action buttons (e.g., Resume, Contact).
- **Projects Section:** Showcases projects with links to GitHub repositories and live demos.
- **About Me:** A detailed section with background, education, and goals.
- **Skills Section:** Visual representation of technical skills using icons or progress bars.
- **Responsive Design:** Fully optimized for mobile, tablet, and desktop.
- **Smooth Navigation:** JavaScript-based scroll and interactive section transitions.
- **Contact Form:** Functional form with basic validation and email forwarding using services like EmailJS.

GitHub Repository: [Deexith-2001/portfolio-website](https://github.com/deexith-2001/portfolio-website)

Live Demo: <https://deexith-2001.github.io/portfolio-website/>

March 2025 to
April 2025

Self Project (NxtWave Program)

Warangal, India

Junior Developer

AgriBot / GrowTech – AI-Powered Agriculture Assistant

Tech Stack: Python (Flask), HTML, CSS, JavaScript, OpenAI GPT-3.5, OpenWeatherMap API, Geocoding API, SQLite, Git, GitHub

Description:

AgriBot (also called GrowTech) is a smart, AI-driven chatbot and web platform designed to support farmers by offering personalized agricultural advice. It integrates real-time weather data, natural language processing (NLP), and crop recommendation systems to empower decision-making in farming.

Key Features:

- **AI Chatbot with NLP:** Integrated OpenAI's GPT-3.5 Turbo to provide intelligent, human-like responses to queries related to crops, pest control, irrigation, and soil health.
- **Location-Based Recommendations:** Uses Geocoding API and OpenWeatherMap API to fetch real-time weather based on user location, offering customized crop suggestions.
- **Crop Advisory:** Suggests suitable crops based on climate, soil, and weather data, helping farmers maximize yield.
- **Pest Control Guidance:** Offers curated solutions for pest management, improving crop protection.
- **Interactive Chat Interface:** Clean, user-friendly chatbot interface with keyboard support (Enter key submission), dynamic scrolling, and smooth animations.
- **MSP and Market Prices (Coming Soon):** Plans for real-time Minimum Support Price (MSP) integration using government API or web scraping.
- **Responsive Web Design:** Built using HTML, CSS, and JavaScript with consistent layout and navigation across devices.
- **Hybrid Chat Logic:** Combines rule-based responses for FAQs with GPT-based NLP for dynamic queries, balancing speed and accuracy.
- **Backend Integration:** Built with Flask and SQLite to manage user sessions, chat logs, and system logic.

Impact:

This project aims to modernize agriculture by delivering digital advisory services in rural areas, increasing productivity and reducing dependency on outdated practices. It's part of an undergraduate capstone project.

GitHub Repository: [Deexith-2001/GrowTech](https://github.com/deexith-2001/GrowTech)

Live Demo: <https://growtech.onrender.com>

Team Size: 4 members

Role: Full Stack Developer(Aspirant, Team Head)

March 2025 to
March 2025

Self Project (NxtWave Program)

Warangal, India

Netflix_clone

Tech Stack: HTML, CSS, JavaScript,
Description: Developed a fully responsive Netflix clone that replicates the look and feel of the original Netflix UI.
Key Features:

- **Responsive Design:** Optimized for desktop, tablet, and mobile devices.
- **Interactive UI:** Implemented horizontal, scrollable movie carousels, hover effects, and CSS.
- **Deployment:** Hosted a live project using GitHub Pages for easy access.

GitHub Repository: [Deexith-2001/netflix-clone](https://github.com/deexith-2001/netflix-clone)
Live Demo: <https://deexith-2001.github.io/netflix-clone/>.

Education and Training

May 2025
Warangal Institute of Technology & Science
Guddepad, Warangal
Computer Science And Engineering
Bachelor of Technology(B-Tech))

Activities and Honors

- Elected as a project presenter for the AI-based GrowTech chatbot
- Recognized for strong performance in Python and SQL modules
- Successfully deployed two GitHub projects with real-world applications

Certifications

- **Generative AI Mega Workshop 2.0 – Participation** Attended a workshop conducted by Mr. Tezan Sahu (SDE II, Microsoft) on generative AI tools and use cases, issued by NxtWave CCBP 4.0/Date: September 18, 2024
- **Generative AI Project Completion – Pitch-Ready Product** Successfully built a pitch-ready product using 10+ AI tools during the Generative AI Mega Workshop 2.0, issued by NxtWave CCBP 4.0/ *Date: 18-Sep-2024*
- **NxtCode – 7 Under 7 Challenge** Achieved the 7-day milestone in the coding challenge conducted by CCBP 4.0 Academy, issued by NxtWave/Date: October 1, 2024
- **AWS Academy Cloud Foundations** successfully completed AWS Academy's Cloud Foundations program, covering cloud concepts, architecture, security, and billing

Languages

Telugu: First Language
English: C2 **Hindi:** B1
Proficient (C2) Intermediate (B1)

Websites, Portfolios, Profiles

- www.linkedin.com/in/sai-deexith-musham-254919267
- <https://growtech.onrender.com>