

B Chaitanya Reddy

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SUMMARY

Aspiring Software Engineer with strong proficiency in Python and Java. Experienced in building scalable backend applications, RESTful APIs (FastAPI and Flask), full-stack web solutions, and AI/ML-powered systems. Proven track record in developing production-grade features, real-time inference pipelines, observability, and deploying applications using Docker. Solid foundation in OOP, Data Structures & Algorithms (DSA), SQL, debugging, and SDLC through internships, hackathons, and impactful projects.

SKILLS

Programming Languages: Python, Java, SQL

Backend: FastAPI, Flask, REST APIs, API Design, Endpoint Development

AI/ML: Machine Learning, Deep Learning (basics), NLP(Basics), TensorFlow, Scikit-learn, Hugging Face

Frontend: HTML, CSS, JavaScript

Databases: MySQL, SQLite

Tools: Git, GitHub, Power BI, Docker, Jupyter, VS Code, Streamlit, IntelliJ IDEA

WORK EXPERIENCE

AI/ML Intern – CropNow

Nov 2025 – Feb 2026

- Developed and integrated ML models into backend systems using Python.
- Collaborated with cross-functional teams to deliver scalable solutions.
- Performed debugging, testing, and validation of APIs to ensure reliability.
- Created technical documentation, including workflows, API details, and system design notes.

PROJECTS

AquaJyoti: Real - Time AI Microplastics Detection Platform (SIH 2025 Hardware Edition)

GitHub: https://github.com/BChaitanyaReddy895/AquaJyoti_SIH_ML

- Built a production-grade two-stage AI inference platform in Python for real-time microplastics detection using an ensemble of 6 ML/DL models.
- Documented system architecture, API endpoints, and workflows for maintainability.
- Deployed the platform for edge execution on Raspberry Pi, enabling reliable real-time inference.

Agentic AI for Sustainable Farming

GitHub: <https://github.com/BChaitanyaReddy895/Agentic-AI-for-Sustainable-Farming>

- Engineered 30+ production-grade REST APIs using FastAPI and Python for crop planning, pest prediction, and multilingual chatbot workflows.
- Built a 5-agent AI system for intelligent farm decision support and automated recommendation workflows.
- Developed ML-powered crop recommendation pipelines using 296K+ agricultural records.

SkillSync: AI-Powered Internship Matching Platform Flask

GitHub: <https://github.com/BChaitanyaReddy895/SkillSync>

- Developed a full-stack web application for intelligent resume-job matching.
- Built frontend using HTML, CSS, and JavaScript with a responsive design.
- Designed backend using Flask APIs for resume scoring, skill extraction, and predictions.
- Improved system accuracy using NLP and machine learning models.

EDUCATION

Reva University, Bangalore

Sep 2023 – Present

B.Tech in Computer Science and Engineering

CGPA: 9.67

ACHIEVEMENTS

- Ranked Top 8.3% in GirlScript Summer of Code 2025 (GSSoC) with 8 merged pull requests.
- Finalist – Smart India Hackathon 2025 (SIH 2025) Hardware Edition.
- 3rd Prize Winner – VIT Vellore Code Cortex 2.0 Hackathon 2025.