

Aspiring AI/ML Engineer and Python Developer with experience in building intelligent systems using NLP, Deep Learning, and Machine Learning frameworks. Skilled in Python, TensorFlow, and Hugging Face Transformers for developing chatbots and sustainable AI platforms. Passionate about applying artificial intelligence for real-world impact with strong problem-solving, leadership, and analytical skills.

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#### EXPERIENCE:

AI/ML Intern - CropNow

Nov 2025 - Present

- AI-ML model development
- Model design, testing & implementation
- Technical documentation & teamwork
- Contributing to smart farming solutions

Python Programming Intern - VaultofCodes

June 2024 - August 2024

- Developed Python - based solutions for assigned tasks, demonstrating logical problem-solving and efficient code structuring.

Lead Developer & Architect - Agentic AI for Sustainable Farming.

April 2025 - Present

- Architected a multi-agent AI system with advanced sustainability analytics, integrating NLP, ML, and interactive UI modules.

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#### SKILLS:

Technical Skills:

Languages (Python, Java) | Frameworks & Libraries (Flask, TensorFlow, Scikit-learn) | Databases (MySQL) | Data Analysis (NumPy, Pandas, Power BI) | Machine Learning | Natural Language Processing (NLP) | Deep Learning | Data Visualization.

Tools & Platforms:

Jupyter Notebook | Google Colab | VS Code | GitHub | Streamlit | Hugging Face | MySQL

Soft Skills:

Problem Solving | Analytical Thinking | Leadership | Communication | Adaptability | Time Management | Collaboration | Continuous Learning.

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#### PROJECTS:

Agentic AI For Sustainable Farming - Lead Developer & Architect

[Live Prototype Link](#) | [GitHub](#)

- Architected and developed a multi-agent AI system for optimized farm management.
- Developed a responsive Streamlit UI with custom styling, multilingual support, and user login system.
- Implemented features: Crop Rotation Planner, Fertilizer Optimization Calculator, Sustainability Score Tracker, Interactive Farm Map, Community Insights, Market Dashboard, AI Chatbot, and Offline Mode.

Sahayak Organization Chatbot

Development - Lead Developer

[Live Prototype Link](#) | [GitHub](#)

- Built a Python-based chatbot for the NGO "Sahayak" using NLP and machine learning to answer user queries.
- Implemented Hugging Face Transformers (DistilBERT) with FAISS for semantic search and PDF text extraction using PyMuPDF.
- Integrated multi-language translation via Deep Translator and containerized the app with Docker, reducing setup time by 30%.
- Optimized model loading, leadership role extraction, and response relevance (+25%) using keyword expansion and context appending.

Bangla-to-English Translator Web Application - Key Developer

[Live Prototype Link](#) | [GitHub](#)

- Developed a web app with Python and Flask for translating text, PDFs, images, and Bangladeshi newspaper articles.
  - Integrated Tesseract OCR and Hugging Face Transformers for accurate translation; enabled full-site crawling and keyword search with highlighted results.
  - Built a SQLite backend with optimized search using fuzzywuzzy; enhanced performance via caching, GPU-based translation, and thread-based batch processing.
  - Implemented secure session management, input validation, and resolved rendering/session issues via log analysis and fallback mechanisms.
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EDUCATION:

Reva University, Bangalore.

September 2023 – Present

B Tech in Computer Science and Engineering - 9.75(CGPA)

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ACHIEVEMENTS:

- Finalist - Smart India Hackathon 2025(SIH 2025) Hardware Edition
- 3<sup>rd</sup> Prize Winner – VIT Vellore Code Cortex 2.0 Hackathon 2025 for the project “Agentic AI for Sustainable Farming”.
- Presented a seminar on 'Future of Generative AI in Business' at REVA Business School (AI Fest 2025).
- Recognized as the top performing team at domain level during the project cycle at Dev/Track club, REVA University.
- Runner up in IEEE ScreenSmart Ideathon conducted by School of ECE, REVA University.
- Active member of Dev/Track, GLUG & Robotics Club at REVA University: Contributed to Agentic AI for Sustainable Farming and Bangla-to-English Translation Web App.
- Core Team Member at Sahayak NGO; contributed to development of VEXA Chatbot.

Declaration: I hereby declare that all the above information given by me is true to the best of my knowledge