

AINDRIK SARKAR

AI & Python Developer | Machine Learning | Full-Stack | AgriTech

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PROFESSIONAL SUMMARY

AI & Python Developer with hands-on internship experience building end-to-end ML solutions and full-stack web applications. Specialized in deep learning, CNNs, NLP, and LLMs with a proven track record delivering real-world AgriTech products. Skilled across the complete ML pipeline — data preprocessing, model training, API integration, and deployment. Also experienced in building modern, responsive frontend interfaces. Passionate about leveraging AI and clean code to solve impactful problems.

TECHNICAL SKILLS

AI / ML: CNNs (MobileNet), NLP, LLMs, TensorFlow, Scikit-Learn, Model Training & Evaluation

Backend: Python, FastAPI, Flask, MongoDB, REST APIs, OTP Authentication (Twilio)

Frontend: React + Vite, HTML, CSS, Bootstrap, Tailwind CSS, JavaScript

Data & Viz: NumPy, Pandas, Matplotlib, Feature Engineering, Data Preprocessing

Tools: GitHub, Google Cloud, Jupyter Notebook, VS Code

PROFESSIONAL EXPERIENCE

Artificial Intelligence Intern

Dec 2025 – Apr 2026

Tusker AI | Ahmedabad, India

- Built Organic-Pie, an AI-powered full-stack crop disease prediction platform deployed for real-world farmer use.
- Developed and optimized CNN (MobileNet) models using TensorFlow for image-based disease classification.
- Engineered a FastAPI backend with MongoDB, and OTP-secured login via Twilio for production-grade reliability.
- Delivered a fully responsive React + Vite frontend integrated seamlessly with the AI backend.

Python Developer Intern

Jul 2024 – Aug 2024

YBI Foundation | Ahmedabad, India

- Built a Mileage Prediction Model with Scikit-Learn and Flask, applying regression on vehicle datasets.
- Implemented data pipelines using NumPy and Pandas; visualized model insights with Matplotlib.

PROJECTS

Organic-Pie — AI Crop Disease Prediction & Advisory System

Dec 2025 – Apr 2026

Tech Stack: Python, TensorFlow, CNN (MobileNet), FastAPI, MongoDB, React + Vite, Twilio, JavaScript

Link: github.com/iamaindrik/Organic-Pie

- Designed and deployed a full-stack AI web app enabling farmers to upload crop images and receive instant disease diagnosis and advisory insights.
- Trained a MobileNet-based CNN achieving high-accuracy disease classification across multiple crop categories.
- Implemented OTP-based secure authentication with Twilio and built a scalable REST API using FastAPI and MongoDB.
- Delivered a fully responsive React + Vite frontend with smooth UX, providing an end-to-end real-world AI product.

Green Refuel Organics LLP — Portfolio Website

Mar 2026

Tech Stack: HTML, CSS, Bootstrap, Tailwind CSS, JavaScript

Link: greenrefuelorganics.com

- Designed and developed the official portfolio website for Green Refuel Organics LLP, an eco-conscious sustainable brand.
- Built a fully responsive, modern UI/UX across mobile, tablet, and desktop with optimized performance and smooth navigation.
- Translated the founder's vision into a structured, brand-aligned web experience showcasing the company's mission, services, and values.

EDUCATION

B.Tech – Computer Engineering (Machine Learning & AI)

Sep 2022 – Jun 2026

Silver Oak University, Ahmedabad, Gujarat

CERTIFICATIONS

Crash Course on Python (Google/Coursera)
Web Development Certification (DevTown)
Deloitte Australia – Technology Job Simulation
Google Cloud Skills Boost (Verified)

LANGUAGES

Bengali (Native) **English** (Professional Working) **Hindi** (Elementary)