

MUNTAH MAHFUZ SRESTHO

AI & Machine Learning Developer

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SUMMARY

I build practical AI systems — agents that call tools, computer vision pipelines that run on limited hardware, and full-stack apps that actually get used. Most of my work sits at the intersection of models and real systems: FastAPI backends, edge inference, and agents that stay grounded in data instead of making things up. Currently looking for an internship where I can contribute to production AI work.

PROJECTS

Pixagent — AI agent for a laptop repair shop

github.com/Srestho0101/Pixagent

- Full-stack system where technicians create tickets and logs, and customers chat with an AI assistant about their repair status.
- Backend in FastAPI + PostgreSQL (Supabase). The agent uses Mistral with tool calling so it only answers from real repair data. Streaming responses, JWT auth, and deliberate guardrails against hallucination.

Result Management System — Agentic layer (Contributor)

- Added a Mistral-powered assistant to a Flask school management platform so teachers can query student data in natural language.
- Built secure tool-calling functions over SQLAlchemy/SQLite that respect role-based access instead of exposing the whole database.

Autonomous Desktop Agent — Linux computer-use agent

github.com/Srestho0101/AI-computer-use

- Multimodal agent that can control a Linux desktop (Wayland) on machines with only 4GB RAM.
- Uses in-memory frame capture and kernel-level scancode injection so it can see the screen and type/click without heavy dependencies.

Real-Time Drone Vision — Edge computer vision pipeline

github.com/Srestho0101/monster-vision

- Live drone video streamed to an Arch Linux server for real-time object detection with YOLOv8 and PyTorch.
- Fine-tuned YOLOv8n and applied dynamic quantization to keep inference fast enough for moving drones.

SKILLS

Languages & Frameworks: Python, FastAPI, Flask, PyTorch

AI / ML: Tool-calling agents, Mistral API, YOLOv8, model quantization, computer vision, real-time inference

Backend & Data: PostgreSQL, Supabase, SQLAlchemy, SQLite, JWT auth, streaming (SSE)

Systems: Linux (Arch), Wayland, edge deployment, Git, Docker

EDUCATION

Pearson Edexcel A Levels — Private Candidate (In Progress)

Physics, Mathematics, and Further Mathematics.