Abrar Al Sayem

I am a collaborative learner with a foundation in computer science, specializing in artificial intelligence, machine learning, and data-driven system design. My interests center on applying computational methods across interdisciplinary domains to create practical, research-informed solutions and challenge my skills through hands-on application and learning. I also keep keen interest in music, art and debates.

Contact

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Education

BRAC University
B.Sc. in Computer Science
2018-2025

Dhaka Residential Model College
SSC-HSC
2014-2016

Academic and Reseach Projects

1. **Natural Language Processing (ACM Conference- ICCTA '23)-** Implementing the Tesseract Method for Information Extraction from Images.

2. **Cattle Weight Estimation from Images using ML/DL (Thesis)-** Developed full pipeline combining segmentation, keypoint detection, pretrained models, and FiLM-conditioned regression for livestock weight prediction.

3. **IoT-based Agricultural Monitoring System (HPC & Distributed Systems)-** Built a Kubernetes-based network for large-scale agricultural data collection from IoT devices, enabling distributed monitoring and analytics for drip irrigation.

4. **Crop Disease Detection & Yield Optimization (Pattern Recognition)-** Trained CNN and ML models for crops disease classification and yield estimation.

5. **Thesis Progress Tracker (Software Development Project)-** Developed Laravel + Vite + MySQL based web application to manage thesis progress.

Experience

- **Project Lead (IT & Product Research) — Asia Linkage Ltd.-** Directed product categorization, web solutions, and admin systems for large-scale catalog solutions.
2021-2025

- **Visual Design & Branding Consultant — BrowMafia360 Advertising Agency-** Delivered end-to-end brand identity and campaign visuals while consulting clients on creative strategy, visual communication, and digital marketing.
2020-Present

Technical Skills

- **Programming:** Python, Java, SQL, Matplotlib
- **Deployment:** Docker, Kubernetes, Streamlit, Git, Linux (Ubuntu)
- **Frameworks:** PyTorch, TensorFlow, FastAPI, Laravel, Vue.js, Vite, Wordpress
- **AI Tools:** Pandas, Numpy, Scikit-Learn, Hugging face, OpenAI APIs
- **Documentation & Visualization:** LaTeX, Figma, Adobe Creative Suite

github.com/iam-abrar