

# 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. From there, the focus shifts to building web platforms, AI systems, and research-driven tools that solve real problems. By applying computational methods across interdisciplinary domains, the goal is to create practical, research-informed solutions and challenge my skills through hands-on application and continuous learning.

## Contact

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## Education

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- **B.Sc. in Computer Science**
- BRAC University (2018-2025)
- **SSC-HSC**
- Dhaka Residential Model College

## Academic Research & Projects

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- 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, and FiLM-conditioned regression.
- 3. AI-Driven PFAS Discovery & Molecular Safety**  
Developed an AI molecular screening pipeline (Hybrid GNN) to identify safe, non-toxic alternatives. (RSGI 2025)
- 4. IoT-based Agricultural Monitoring System**  
Built a Kubernetes-based network for large-scale agricultural data collection and analytics.

# Experience

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## **Project Coordinator & Full-Stack Developer – BANCAT – Contract (2026)**

Engineered a secure, bilingual headless platform (Laravel 10 + React 18) for widespread donor management and patient advocacy. Built a custom, PostgreSQL-backed admin panel featuring React-based components for streamlined data management, and implemented a full CI/CD pipeline via GitHub Actions for automated deployment to hosting.

## **Visual Design & Digital Solutions – brownmafia360 (2023-2025)**

Managed end-to-end UI/UX design, brand identity development, web and digital solutions, and digital marketing strategies for high-impact communication.

## **Contract – Asia Linkage Ltd. (2021-2023)**

Led product categorization and administrative systems for large-scale enterprise catalog archive and gallery.

# Technical Skills

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- **Programming Languages:** Python, JavaScript, PHP, Java
- **Web Development:** Laravel, React.js, Next.js, Vite, WordPress
- **AI & Machine Learning:**
  - PyTorch, TensorFlow, Scikit-Learn
  - Pandas, NumPy
  - Retrieval-Augmented Generation (RAG), N8N
- **Backend & APIs:** FastAPI, REST API
- **DevOps & Deployment:** Docker, Kubernetes, Git, Linux (Ubuntu)
- **Design & Documentation:** LaTeX, Figma, Adobe Creative Suite