MD AMINUL ISLAM BHUIYAN AMIN

AI Engineer | Machine Learning Researcher | Deep Learning Specialist

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SUMMARY

Results-driven AI Engineer with over 2 years of hands-on experience in developing and deploying machine learning systems. Expertise in building production-grade GenAI pipelines, computer vision applications, and NLP solutions. Committed to driving innovation in AI/ML engineering with a strong background in competitive programming and algorithmic problem-solving.

EXPERIENCE

Independent AI Developer & Researcher   01/2024 – Present
Remote

- Deployed 8+ AI systems (RAG, CV, NLP) serving 5,000+ daily queries using LangGraph and Pinecone.
- Conducted 25+ ML experiments achieving 15–20% performance gains in model accuracy.
- Built end-to-end ML pipelines with CI/CD, monitoring, and automated deployment via GitHub Actions.

Computer Data Analyst Operator   06/2024 – 05/2025
Intelligent Image Management Limited (IIML)   Dhaka, Bangladesh

- Processed 10,000+ images for training datasets maintaining 99.5% accuracy.
- Performed statistical analysis that reduced data processing errors by 25%.

SKILLS

Languages & Frameworks: Python, C++, Java, PyTorch, TensorFlow, SQL, Scikit-learn, HTML, CSS
AI/ML Specializations: Generative AI (RAG), Computer Vision, NLP, LLM Orchestration
Tools & DevOps: Docker, MLflow, GitHub Actions, AWS, GCP, Jupyter, Pinecone

SELECTED PROJECTS

Intelligent RAG System   *LangGraph, Pinecone, Python*
Developed an agentic routing system handling 5,000+ queries/day; optimized vector search resulting in a 35% latency reduction.

People Flow Tracking System   *YOLOv8, ByteTrack, OpenCV*
Engineered a real-time tracking solution; achieved 95% detection accuracy at 30 FPS.

Predictive Analytics Pipeline (MLOps)   *Scikit-learn, Docker, MLflow*
Built a robust regression pipeline for house price forecasting; reached top 15% on Kaggle via advanced ensemble modeling.

EDUCATION

B.Sc.Engg. in Computer Science and Engineering (Major: AI)   06/2023 – 06/2027
Bangladesh University of Business and Technology (BUBT)   Dhaka, Bangladesh

- **Relevant Coursework:** Machine Learning, Deep Learning, Computer Vision, NLP, Data Structures & Algorithms, Database Management Systems, Operating Systems.
- **Academic Focus:** Specialized in implementing neural network architectures and optimizing big data processing pipelines.

HONORS & AWARDS

Honorable Mention – ICPC Asia Dhaka Regional   *2023, 2025*
International Collegiate Programming Contest

Honorable Mention – BIUCPC 2025   *2025*
BUBT Inter-University Collaborative Programming Contest

CERTIFICATIONS

- ✳ **AI Engineering Bootcamp for Programmers** – Ostad (2025)
- ✳ **Neural Networks and Deep Learning** – DeepLearning.AI (Coursera, 2025)
- ✳ **Machine Learning with Python & Scikit-learn** – IBM (Coursera, 2025)
- ✳ **Designing and Implementing Big Data Analytics Solutions** – BUBT (2025)