

SHAON SIKDER

AI Engineer — Generative AI & MLOps

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Dhaka - 1212, Bangladesh

EDUCATION

- East West University** Dhaka, Bangladesh
• BSc. in Information and Communication Engineering; GPA: 3.46 / 4.0
Graduated June 2020
- Matibhanga Degree College**
• Higher Secondary Certificate; Result: A
Graduated 2015

SKILLS SUMMARY

- Generative AI:** LLM Dev & Fine-tuning (GRPO, DPO, LORA/PEFT, Quantization), Adv. RAG (ChromaDB, Milvus, Pinecone), AI Agents (LangChain, MCP, Pydantic AI, LlamaIndex, LangGraph, CrewAI, DSPy), Prompt Engineering, Multimodal AI (CLIP), Llama series, BERT, GPT APIs, Vector Databases, Knowledge Graphs
- AI/ML Core:** ML & DL Algorithms (Supervised, Unsupervised, Transformers), NLP, Computer Vision
- Frameworks:** Python, TensorFlow, PyTorch, Scikit-learn, NumPy, Pandas, OpenCV, Hugging Face, FastAPI, Flask, Django, PySpark, Pydantic, Streamlit, Celery
- MLOps & Cloud:** MLOps Lifecycle, CI/CD (GitHub Actions, Jenkins, GitLab CI), Docker, Kubernetes, AWS (EC2, S3, SageMaker, Lambda, Beanstalk), Azure/GCP (Familiar), MLflow, DVC, Monitoring, Terraform (Basic), Deployment Strategies
- Databases & Tools:** SQL, PostgreSQL, MongoDB, Redis, Linux, Git, ETL, Data Mining, Web Scraping (Beautiful Soup, Selenium), Power BI
- Core Competencies:** Statistical Analysis, Problem-Solving, Critical Thinking, Leadership, Collaboration, Communication, Adaptability, Ethical AI, Content Creation

EXPERIENCE

- Short Circuit Science** Dhaka, Bangladesh
• AI Engineer July 2024 – Present
 - Develop and fine-tune ML models (TensorFlow, PyTorch) for medical imaging and sports analytics using Transfer Learning.
 - Architect & build multi-agent LLM systems (Co-Pilot) using LangGraph/CrewAI for drug discovery; develop advanced RAG solutions (ChromaDB).
 - Collaborate with international, cross-functional teams for AI integration.
 - Design scalable backend APIs (FastAPI, Flask, Django).
 - Deploy applications using Docker/Kubernetes, manage CI/CD (GitHub Actions) on AWS, oversee PostgreSQL/MongoDB databases.
 - Translate business requirements into technical specifications & AI insights.
- Actionboard.ai / Deep Data Lab** Remote
• AI Engineer (Contractual) Dec 2024 – Present
 - Developed specialized AI agents and orchestrated Model Context Protocol (MCP) servers for real-time intent detection, data retrieval, and automated knowledge graph updates.
 - Implemented MLOps pipelines to streamline deployment, monitoring, and integration with APIs for scalable, reproducible workflows.
 - Built advanced action-loop workflows enhancing knowledge acquisition, organization, and amplification.
- Delineate (YC W25)** Remote
• AI Engineer (Contractual) Dec 2023 – Dec 2024
 - Developed AI agents to distill millions of scientific papers and datasets into actionable insights, accelerating drug development.
 - Automated literature mining and curated MBMA datasets from 400+ clinical trials for benchmarking.
 - Fine-tuned llm(gemma) model with research specific question-answer dataset using GRPO
 - Designed LLM-powered on-premises search engines for pharmacokinetics and PKPD data retrieval.
- Easital Technologies** Dhaka, Bangladesh
• AI Engineer June 2023 – April 2024
 - Spearheaded AI chatbot for 'Beeda' mega-app using fine-tuned Llama, LangChain, LlamaIndex.
 - Increased user engagement by **20%** via intuitive chatbot interactions.
 - Established MLOps workflows (Docker, CI/CD with Git/Jenkins) on AWS.
 - Reduced business card scanning errors by **35%** using AI-powered OCR.
- Piana Pte Ltd** Singapore (Remote)
• Lead Data Scientist Oct 2022 – June 2023
 - Led team of 4 developing social network analysis models, reducing simulated risk by **20%**.
 - Built dashboards (Power BI, Streamlit) on AWS/Heroku.
 - Engineered ETL & scraping solutions, reducing data retrieval errors by **15%**.

- Implemented XAI (SHAP) and automated monitoring for fairness.
- Developed APIs (Flask/Django) deployed with Docker on AWS/Heroku with CI/CD.

- **Opus Technology Ltd**

Dhaka, Bangladesh

July 2021 – Sep 2022

- *AI Engineer*

- Streamlined AI ops with CI/CD pipelines, boosting MLOps efficiency by **20%** on AWS.
- Developed esports prediction model achieving **10%** higher accuracy than betting odds.
- Led and mentored a team of 4 AI professionals.

RESEARCH

- **Bone Marrow Classification: Effectiveness of Transfer Learning:** (Ongoing) Applying Transfer Learning to enhance bone marrow classification accuracy using medical imaging.
- **Thermal Comfort Analysis: Machine Learning & Explainable AI:** (Ongoing) Applying ML & XAI to understand thermal comfort across geographies.
- **Federated Learning Review: Smart Building Context:** (Ongoing) Reviewing Federated Learning applications for energy efficiency & comfort in smart buildings.

TEACHING

- **Horizon Solutions**

Dhaka, Bangladesh

- *Course Instructor, Generative AI: Basic to Advance*

July 2024

- Developed and delivered course on LLMs, Transformers, RAG, Vector DBs, Knowledge Graphs, Agent Architectures, End-to-End AI projects.

- **Skill Hunt**

Dhaka, Bangladesh

- *Course Instructor, Fundamentals of AI*

Aug 2021

- Developed and delivered foundational AI course.

PROJECTS & MEDIA

- **Data Discovery (YouTube Channel):** Creator and host, producing Generative AI tutorials, experiments, and research reviews. ([Channel Link](#))