

SHAON SIKDER

AI ENGINEER

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SUMMARY

Experienced AI Engineer (3+ years) advancing Large Language Models, Machine Learning, Deep Learning Algorithms, Data-centric AI crafting ethical, explainable LLMs & AI solutions for real-world impact, prioritizing safety, well-being, and responsible innovation.

SKILLS AND EXPERTISE

Python, Pandas, NumPy, Streamlit, Beautiful Soup, Selenium, OpenCV, TensorFlow, Transformer, BERT, CLIP, PostgreSQL, Flask, Django, GitHub, DVC, Py Spark, Power BI, Docker, GitHub Action, Excel, Heroku, AWS, Linux OS

LangChain, llama index, Prompt Engineering, LLM Fine-tuning using DPO with LORA, LLM quantization, Vector Database,

Statistics (Regression, Classification, Time Series, Hypothesis Testing), Data Science & Data Analytics, Machine Learning, Deep Learning, Team Leadership, Strong problem-solving, Attention to detail, Operations Management, Communication

PROFESSIONAL EXPERIENCE

AI Engineer

Easital Technologies

Jun 2023 - Present

- Spearheaded the development and integration of a sophisticated AI chatbot for Beeda, a 50+ service International Mega-App, using advanced LLMs and innovative techniques like LangChain, Llama Index, and Prompt Engineering.
- Increased user engagement and service access by 20% through chatbot-powered navigation and ordering across Beeda's vast platform.
- Streamlined data processing and model deployment through Docker, CI/CD pipelines with Git and Jenkins, enabling seamless AWS cloud integration and scaling
- Reduced business card scanning errors by 35% with AI enabled OCR integration
- Chatbot Development, Large Language Models (LLMs), LangChain, Llama Index, Prompt Engineering, OCR, Content Classification, Moderation, AWS, CI/CD, Git, Jenkins

Lead Data Scientist

Piana Pte Ltd

Oct 2022 - Jun 2023

- Led a data science team to develop advanced social network analysis models using Python NLP and NetworkX, reducing individual attack risk by 20% through identification and mitigation.
- Built interactive data dashboards (Power BI, Streamlit) on AWS/Heroku, enhancing data accessibility and communication.
- Implemented efficient ETL processes and web scraping solutions for diverse web structures, improving 15% reduction in data retrieval errors.
- Proactively mitigated risks and biases through Explainable AI and automated monitoring.
- Developed and deployed backend APIs with Docker and AWS, establishing a robust CI/CD pipeline for automated workflows.
- Python, NLP, NetworkX, Power BI, Streamlit, SQL/PostgreSQL, ETL, Web Scraping, API Development, Explainable AI (XAI), CI/CD, Docker, AWS, Heroku, GitHub Actions

AI Engineer

Opus Technology Ltd

Jul 2021- Sep 2022

- Streamlined AI operations at Opus Technology with end-to-end CI/CD data pipelines across data mining, scraping, EDA, training, and deployment, boosting MLOps efficiency by 20% which increased model iterations and experimentation velocity.
- Built an innovative esports prediction model with 10% higher accuracy than industry betting odds, deployed on AWS with Docker and a REST API for database integration.
- Led a team of 4 AI professionals, fostering collaboration and achieving business goals through effective leadership and data-driven problem solving.
- Skilled in AWS (EC2, S3), Selenium, Pandas, ML, OCR, PostgreSQL, Elastic Beanstalk, and LightSail.

Previously grew my AI skillset in AI engineering (ADSPL Ltd), refined leadership through a Management Trainee role (Acme AI).

EDUCATION

BSc. in Information and Communication Engineering	Jun 2020
East West University	<i>Result: 3.46 out of 4.0</i>
Relevant coursework: Data Structure & Algorithms, Statistics & Probability, Calculus, Machine Learning, Artificial Intelligence, Data Mining.	
Higher Secondary Certificate	2015
Matibhanga Degree College	<i>Result: A</i>

TEACHING

Course Instructor, Fundamental of AI	Aug 2021
Skill Hunt	

ONGOING RESEARCH

Shaon Sikder, Tanbin Islam Rohan, Amena Mahmoud, "Effectiveness of Transfer Learning on Bone Marrow Classification"

Babul Mosabber, **Shaon Sikder**, SM Nasim, Rownuk Ara Romy, "The Concept of Thermal Comfort by Machine Learning and Explainable AI for different geographical location"

Babul Mosabber, Rownuk Ara Romy, **Shaon Sikder**, Sinhad Hossain Fahim, "A Review on Federated Learning in the Context of Smart Building with Energy Efficiency and Thermal Comfort"