

Abdullah Al Mamun, PhD

San Francisco Bay Area, California, USA

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8+ YOY, Permanent Residence

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www.newabdullah.com

[Google Scholar](https://scholar.google.com/citations?user=...)

SKILLS

Ads ranking, RecSys, Search ranking, Python, Transformer, LLM, RAG, AgenticAI, LangChain, LangGraph, Fine-tuning, LoRA, QLoRA, RLHF, PPO, DPO, Quantization, 4D Parallelism, KV-Cache, CI/CD, Docker/container, Kubernetes, PyTorch.

EXPERIENCES

- Atlassian** Mountain view, USA
Senior Machine Learning Engineer 09/2025–present
 - Replaced GPT-4o-mini with fine-tuned Llama-3.2 1B for Jira/Confluence search intent detection, \$1M CAPEX savings/year..
 - Built RL-based fine-tuning pipeline for SMART Answer generation — 20% coverage improvement.
 - Engineered ML-based Jira intent classifier (replacing rule-based heuristics) with multilingual support for global Jira users — 17% increment in query success
- Aisera Inc** Santa Clara, USA
Member of Technical Staff 06/2024–09/2025
 - Building e2e scalable and reusable Multi-Agentic architecture for enterprise AI, driving ~\$3.4M estimated ARR.
 - Fine-tuned LLaMA 3 and deployed it on AWS, reducing \$4M in CAPEX compared to GPT4.
- Meta** Menlo Park, USA
Machine Learning Engineer 05/2022–06/2024
 - LLM in Ads creation process leading to a 0.09% incremental revenue (iRev) growth (~\$497M).
 - Fine-tuned LLaMA 3 for ad creation workflows and inference optimization (leveraging SFT, RLHF, KV cache, 4D parallelism, quantization, and distillation), achieving a 13% increase in CTR and a 6% increase in CVR by enabling efficient AI-driven text suggestions.
 - Drove a 0.031% iRev growth (~\$109M) by enhancing Personalized Ads Recommendations.
 - Created automated custom audience (AutoCA) clusters to fix miscalibrations in ad ranking. Leveraging targeting relaxation technology, AutoCA efficiently captures user and ad interactions, significantly improving model predictions by 0.1% irev.
- Machine Learning & Data Analytics Lab (MLDAG), FIU** Miami, USA
Research Assistant (AI/ML) 09/2018–04/2022
 - End-to-end development of an interpretable deep learning models for early cancer detection and drug recommendation.
- Research & Innovation (RI), KFUPM** KSA
Research Assistant (ML) 01/2015–12/2016
 - Implemented LSTM-based sentiment analysis tool to analyze customer feedback with 98% accuracy.

EDUCATIONS

- Florida International University** Miami, USA
PhD in Computer Science (Interpretable applied ML) 08/2018–04/2022
- King Fahd University of Petroleum & Minerals** KSA
Masters in Computer Engineering (ML/Robotics in Computer Vision)
- Dhaka University of Engineering and Technology** Bangladesh
Bachelor in Computer Science and Engineering (ML in NLP)

CERTIFICATIONS

- Google:** End-to-End Machine Learning with TensorFlow on Google Cloud Platform (Issued: March, 2020)
- University of Illinois Urbana-Champaign:** Cloud Computing Concepts: Part 1 & 2 (Issued: April 2015)

AWARDS RECEIVED

- Champion:** 2nd GCC Robotics Challenge at Doha, Qatar, 2017. Organized by IEEE and IET
- Conference Travel Fellowships:** 10th ACM BCB, NYC (2019); IEEE BIBM; San Diego (2019 and 2020)