HAMMAD KABIR

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EDUCATION

FAST National University of Computing and Emerging Sciences, Islamabad *May 2025*
B.S. in Computer Science
Related courses: AI, Data Structures, Object Oriented Programming, Blockchain and Cryptocurrency, Statistical Modelling, Algorithms, Database Systems, Machine Learning, Generative AI.

SKILLS

Development	Python, C/C++, Flutter
Machine Learning	scikit-learn, TensorFlow, PyTorch
NLP & Text Processing	NLTK, TextBlob, SpaCy
Cloud & Deployment	AWS (Certified Cloud Practitioner), Docker, TensorFlow Serving
Big Data & Databases	MongoDB, ChromaDB, Hadoop
API Development	FastAPI, Node.js
Visualization	Matplotlib, Seaborn, PowerBI
Soft Skills	Team player, Adaptable, Problem-Solver

WORK EXPERIENCE

Freelance Machine Learning Engineer

· Fine-tuned machine learning models to generate accurate SQL queries using Lamini, optimizing query precision for client needs.
· Conducted comprehensive data gathering and preprocessing for an Upwork client, enhancing data quality for model training.
· Executed large-scale data scraping projects from major websites for Analyst Lab, providing high-quality datasets for analysis.
· Deployed models on AWS for training and fine-tuning, leveraging cloud infrastructure for scalable ML solutions.

PROJECTS

Nutrigen — Flutter, Python, TensorFlow

· Developed a Flutter-based mobile app that utilizes machine learning to deliver personalized dietary recommendations, demonstrating expertise in both mobile development and AI-driven solutions in the health and wellness sector.

SQL Query Generation Model — Lamini, Lama 3 Instruct 8B, SQL

· Fine-tuned the Lama 3 Instruct 8B model using Lamini to accurately generate SQL queries, optimizing for high precision in complex data retrieval tasks. This project showcases advanced skills in model fine-tuning and practical applications of machine learning in data-driven environments.

CSAlgoviz — Python, NLP, TensorFlow

· Developed an interactive resource app for learning algorithms, featuring a chatbot that generates targeted questions to assess and reinforce students' understanding.
· Integrated conversational AI techniques to create an adaptive learning experience.