

Hanzla Javaid

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SUMMARY

Computer Science graduate with 2+ years of experience building software, scalable data preprocessing pipelines, and machine learning systems—including fine-tuning LLMs—that solve real-world business problems at scale. Delivered measurable impact by increasing E-commerce conversion rates by 2.3% and boosting CTR by 30% through personalized recommendation engines.

TECHNICAL SKILLS

Programming & Development: Python, R, SQL, C++, Git, REST APIs, React, Agile/Scrum, Jira, Confluence
Cloud & Data Platforms: AWS, Azure, Snowflake, MongoDB, Hadoop, Spark, Jupyter Notebooks
Machine Learning & AI: Scikit-learn, TensorFlow, PyTorch, Hugging Face Transformers, PEFT/LoRA, LLMs
Data Analysis & Visualization: Pandas, NumPy, Matplotlib, Seaborn, Tableau, Power BI, Looker
Statistical Methods: A/B Testing, Hypothesis Testing, Time Series Forecasting, Regression/Classification
Certifications: Azure Data Fundamentals, DeepLearning.AI TensorFlow Developer

PROFESSIONAL EXPERIENCE

Mojave Technologies (IT Consultancy)

Intern, AI Engineering

June 2025 – December 2025

Las Vegas, Nevada

- Engineered scalable multi-agent AI systems utilizing LangGraph, MCP, and Agent-to-Agent (A2A).
- Improved model accuracy and reduced latency through advanced LLM context engineering and inference optimization techniques.
- Fine-tuned variants of LLaMA-3 and DeepSeek using PEFT, deploying inference endpoints on Oracle Cloud to support internal tools and enterprise clients.

Alibaba Group

Machine Learning Engineer

August 2022 – March 2024

Karachi, Pakistan

- Developed a transformer-based product recommendation model on historical purchase sequences that provided personalized recommendations; increased conversion in the "Just For You" module by 2.3%.
- Built the AskDaraz conversational shopping experience using Azure OpenAI and scaled to 200k+ queries/day
- Engineered anomaly detection and RCA pipelines for sales KPIs, saving \$96k/year by streamlining issue resolution and reducing manual analysis.
- Developed dMart's backend for recommendations and supported operators in using the algorithm; over the base bucket (hot items vs. personalized) achieved CTR +30%

EDUCATION

Indiana University Indianapolis

M.S. in Computer Science *GPA: 3.89/4.00*

August 2024 – May 2026

Indianapolis, Indiana

Ghulam Ishaq Khan Institute of Engineering Sciences & Technology

B.S. in Computer Science *GPA: 3.51/4.00*

August 2018 – July 2022

Topi, Pakistan

PROJECTS

Falcon Mamba R1: A Mamba base reasoning LLM

Scaled test time compute of Falcon3 Mamba 7b model using GRPO. The resultant model gained an advantage 37.2% in comparison to base model on math questions (GSM8K). The model received 1,500+ downloads in 2025.

January 2025 – March 2025

Mind Braille: EEG Brain Computer Interface

A mobile BCI application that enabled basic functions. The app worked with a DNN hosted in Azure for classification of EEG into discrete actions. The project won Microsoft Imagine Cup 2022 (EMEA Lifestyle).

October 2021 – March 2022