

# Hanzla Javaid

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## SUMMARY

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Computer Science graduate with 2+ years of experience building software, data pipelines, and ML 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

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**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

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**Mojave Technologies (Payments and Security Infra Provider)**  
Intern, AI Engineering

June 2025 – December 2025  
Las Vegas, Nevada

- Devised a unified A/B testing methodology and developed supporting dashboards to evaluate product features across the company's portfolio of SaaS solutions, reducing analysis turnaround time by **60%**.
- Quantized Gemma 3 models for on-device inference on Android tablets, enabling secure semantic recommendations during product purchase flows on kiosk devices.
- Fine-tuned LLaMA-3 and DeepSeek variants using parameter-efficient fine-tuning (PEFT) and deployed inference endpoints on Oracle Cloud to support internal tools and **5 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

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**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

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**Falcon Mamba R1: A Mamba base reasoning LLM**

January 2025 – March 2025

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.

**Mind Braille: EEG Brain Computer Interface**

October 2021 – March 2022

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).