Malik Hassan Raza

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With 4 years of experience in AI, LLM, and Python, I led a team of 9 engineers to improve model performance, enforce SOPs, and optimize Python pipelines. Spearheaded the development of ETL pipelines, Power BI dashboards, and automated validation workflows, resulting in improved efficiency, faster reporting, and increased data accuracy.

WORK EXPERIENCE

Turing
Software Engineer (AI, LLM, Python)

01/2023 - 10/2025
Remote

- Led a pod of **9 AI engineers** within a broader **600-person team**, increasing training-data throughput and quality for LLM projects, resulting in significant improvements in model performance across code generation, reasoning, and conversational tasks.
- Scaled production to **70–80 high-quality trajectories per week**, contributing to improved data throughput for model training and evaluation.
- Established SOPs and validation workflows that reduced delivery errors and ensured **100% compliance** with client requirements.
- Improved dataset consistency by standardizing task types and workflows, enabling smoother cross-functional delivery and scaling
- Aligned evaluation workflows with benchmarking accuracy and client goals, directly supporting successful project milestones and measurable model improvement.
- Supported supervised fine-tuning and RLHF initiatives by producing high-quality task-specific datasets that strengthened model alignment.
- Evaluated model outputs across technical domains, producing detailed rationales that reduced evaluation errors and improved reasoning quality.
- Earned promotion to Pod Lead and recognition as "**Rising Star**," "**Top Trainer**," and "**Top Lead**" for delivering top-quartile performance and team leadership impact.
- Partnered with cross-functional teams to deliver measurable gains in model performance and product value.

Systems Limited
Junior Consultant Data Analytics

07/2021 - 01/2023
Islamabad

- Built high-performance ETL pipelines using IBM DataStage, improving data ingestion efficiency by 30% while preserving end-to-end data quality for a major telecom client.
- Developed Power BI dashboards and optimized SQL queries, reducing reporting time by 40% and enabling faster data-driven decisions across business units.
- Implemented automated validation workflows with Python/Alteryx, achieving 98%+ post-migration data accuracy, strengthening internal controls and trust in migrated data.

EDUCATION

Bachelor of Science in Computer Science (BSCS)
National University of Sciences and Technology

Islamabad (Pakistan) • 06/2021

CERTIFICATIONS

Virtual Intern
J.P. Morgan Chase

Data Engineering Bootcamp
abcData

What is Data Science?
Coursera
Tools for Data Science
Coursera
Data Science Methodology
Coursera
Python for Data Science, AI & Development
Coursera
Alteryx Micro Credential Foundation
Alteryx

PROJECTS

Membership Inference Attacks using Shadow Models
- Engineered and scaled shadow models to extract membership information from target classifiers, achieving TPR@FPR=0.144 and AUC=0.655.
- Developed feature-rich attack models using full softmax vectors, entropy, margin, and loss metrics for improved inference performance.
- Implemented dynamic data splitting and scaling strategies with up to 30 shadow models to simulate varied training conditions.
- Leveraged modular pipelines from the yonsei-sslab/MIA framework for streamlined experimentation and reproducibility.

SKILLS

Languages and Platforms: Alteryx, AWS, BeautifulSoup, CSS, Docker, Git/Github, HTML, IBM DataStage, Jira, JS, Kubernetes, LangChain, Matplotlib, Microsoft Excel, MySql, Numpy, Pandas, PHP, Pinecone, Power BI, Python, PyTorch, REST API, Selenium, SharePoint, SQL

Technical Skills: Artificial Intelligence, Data Analytics, Data Visualization, Data Warehousing, ETL, GenAI (Prompt Engineering, Custom GPTs, OpenAI APIs), LLMs, Vector Databases, Web Scraping