

MUHAMMAD WAQAS

LinkedIn : [linkedin.com/in/muhammadwaqas476074/](https://www.linkedin.com/in/muhammadwaqas476074/)

Email : kashi476074@gmail.com

GitHub : github.com/muhammadwaqas476074

ABOUT ME

Large Language Model (LLM) Engineer with expertise in developing and fine-tuning large-scale text generation models. Strong background in deep learning, NLP, and tabular data processing. Passionate about optimizing LLM performance, prompt engineering, and integrating AI-driven solutions into production environments.

WORK EXPERIENCE

Machine Learning Engineer

Project: Human City - Remote | Sep 2024 - Present

- Fine-tuned large language models for synthetic text generation based on tabular data.
- Implemented prompt engineering strategies to enhance model relevance and quality.
- Optimized and fine-tuned open-weight models for instruction fine-tuning, LoRA, RLHF.
- Integrated LLM solutions into existing synthetic data generation pipelines.
- Developed and maintained documentation for model architectures, training procedures, and deployment strategies.

Machine Learning Intern

Fellowship.AI - Remote | Apr 2024 - Jun 2024

- Worked on deep learning frameworks like PyTorch and Hugging Face for NLP model training.
- Conducted experiments with fine-tuning LLMs for specific text-based applications.
- Developed data pipelines for text generation and RAG tasks.

Application Engineer

Meximp Technology, Islamabad | Feb 2021 - Mar 2024

- Designed AI-driven solutions for real-time text analysis and processing.
- Developed and optimized deep learning pipelines for scalable NLP applications.
- Maintained backend infrastructures and cloud deployment for AI-based solutions.

Biomedical Engineering Intern

Shifa International Hospital – Islamabad | Sep 2020 - Jan 2021

- Maintained and optimized biomedical equipment.
 - Assisted in troubleshooting real-time issues and system diagnostics.
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EDUCATION

Bachelor of Science in Artificial Intelligence

Iqra University Islamabad | Sep 2021 - Expected Jun 2025 GPA: 3.77

Diploma of Associate Engineering in Biomedical Technology

Prince Salman Institute of Technology, Islamabad | Aug 2017 - Aug 2020 Grade: A+

TECHNICAL SKILLS

- **LLM & NLP Techniques:** Feature Engineering, Pretraining, Prompt Engineering, Fine-Tuning, RAG, LoRA, Agents
 - **Deep Learning & AI:** PyTorch, TRL, Unsloth, Hugging Face ecosystem
 - **Programming Languages:** Python, SQL, C++
 - **Data Processing:** Tabular data structures, structured data analysis
 - **Cloud & Deployment:** Model optimization, scalable cloud-based deployments
 - **Development Tools:** Git, CI/CD, API integration
 - **Research & Innovation:** Keeping up with the latest advancements in LLMs and AI.
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PROJECTS

- Developed fine-tuned models for generating synthetic text grounded in tabular data.
- Implemented prompt engineering techniques to improve text accuracy and coherence.
- Trained and optimized models for NLP applications with structured tabular data.
- Evaluated model performance and refined training procedures for higher accuracy.
- Integrated LLM models into existing data pipelines and optimized them for applications.
- Developed cloud-based solutions for deploying and scaling fine-tuned language models.