Saad Tariq

AI Engineer

⚲ Rawalpindi, Pakistan | ☎ +92 301 9233230 | ✉ saadtariq232@gmail.com | 🌐 LinkedIn | GitHub | Portfolio

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AI Engineer with hands-on experience building real-world AI/ML/DL/NLP/LLM solutions across diverse domains. Skilled in designing scalable, production-ready systems. Passionate about end-to-end AI development—from data pipelines to intelligent interfaces. Pursuing a Bachelor's in Information Technology at NUML Islamabad (Expected graduation: 2025).

PROFESSIONAL EXPERIENCE

AI Engineer   **Bagh, Azad Kashmir**
MTBC CareCloud   *June 2025–Present*

- Assisting in the development and integration of AI solutions for healthcare applications using **LLMs, NLP,** and **automation tools.**
- Supporting data preprocessing, prompt optimization, and chatbot refinement for clinical and administrative use cases.
- Contributing to workflow automation and API integration tasks across internal platforms.

AI Engineer   **Remote**
BitBrainAI   *March 2025–Present*

- Designed AI applications using **LLMs**, **LangChain**, **Streamlit**, **FastAPI**, **CustomGPT (OpenAI)**, and **Retrieval-Augmented Generation (RAG)**; applied advanced **prompt engineering** techniques.
- Engineered chatbot automation workflows with **Voiceflow**, **Botpress**, **n8n**, and social media integrations.
- Built web scraping pipelines using **Selenium**, **BeautifulSoup**, **Playwright**, **SerpAPI**, and **Google Custom Search Engine (CSE)**.
- Created interactive data dashboards in **Excel**, **Google Sheets**, **Tableau**, and **Power BI** with automated reporting and data cleaning workflows.

AI Intern   **Islamabad, Pakistan**
BCDapps   *June 2024–August 2024*

- **Engineered** AI, ML, DL, NLP, LLM models and GenAI tasks to solve complex business problems, increasing model performance by 20%.
- **Collaborated** with senior engineers to optimize machine learning algorithms, improving data processing and prediction accuracy by 15%.
- **Developed** AI-driven conversational systems using LLMs, enhancing user interaction experiences by 25%.
- **Conducted** data pre-processing, feature engineering, and model evaluation, ensuring robustness and accuracy in predictive models.

EDUCATION

Bachelors Of Information Technology   **H-9 Islamabad, Pakistan**
National University of Modern Languages   *Sep 2021 – June 2025*
(GPA: 3.42/4.0)

PERSONAL PROJECTS

AI-Based Interview Preparation Platform with Simulation and Assessment *(Final Year Project – 1st Position, Dept. of Software Engineering, Open House 2025, NUML Islamabad)*

- **Technologies:** React, Python, Groq (LLM), Deepgram (STT & TTS), Flask, FastAPI, Three.js, Rhubarb Lip Sync, SQLite
- **Role: Team Member**
- **Description:** Developed an AI-powered platform that simulates real-life interview scenarios with a voice chatbot and an avatar for interactive practice and feedback.
- **Key Features:**
  - Built a voice-based AI chatbot leveraging Llama 3 and Deepgram for realistic interview simulation.
  - Integrated avatar-based simulation using Three.js and Rhubarb Lip Sync for synchronized facial animations and real-time lip movement.
  - Implemented natural voice interaction helping users improve their response quality and confidence.
  - Improved interview response accuracy by 30% and increased user engagement and retention by 40% through interactive simulation.
  - Used SQLite for lightweight data storage of user sessions, question sets, and feedback logs.

For additional projects, please visit my GitHub: github.com/saadtariq10

CORE SKILLS

- **Data Skills:** Data Analysis, Tableau, Power BI, Excel, Pandas
- **Databases:** MySQL, PostgreSQL (Dockerized), SQLite
- **DevOps & MLOps:** Docker, Docker Swarm, Docker Compose, Jenkins, MLflow, Terraform
- **Version Control:** Git, GitHub
- **Machine Learning & Deep Learning:** ANN, CNN, RNN, LSTMs
- **Model Evaluation & Optimization:** Gradient Descent, Adam, Regularization, Confusion Matrix, F1 Score
- **Data Handling & Preprocessing:** Feature Engineering, Scaling, Encoding, PCA, Outlier Detection
- **Neural Network Techniques:** Forward/Backpropagation, Activation Functions, Dropout, Batch Normalization
- **LLMs & NLP:** Prompt Engineering, RAG, NLTK, Spacy, Hugging Face
- **Frameworks & Libraries:** PyTorch, TensorFlow, scikit-learn, NumPy, Pandas, Matplotlib, Seaborn
- **Web & API Development:** Flask, FastAPI, Streamlit
- **Infrastructure as Code (IaC):** Terraform
- **CI/CD & Workflow Automation:** Jenkins, n8n

CERTIFICATIONS

- [ChatGPT Prompt Engineering for Developers](#) | DeepLearning.ai
- [Building Systems with the ChatGPT API](#) | DeepLearning.ai
- [AI For Everyone](#) | DeepLearning.AI
- [Data Analyst Bootcamp](#) | Alex The Analyst
- [Git Training](#) | Simplilearn