

Ahsan Bilal

AI Engineer

QUALIFICATIONS SUMMARY

An Enthusiastic Data Scientist with hands-on experience in AI and machine learning, skilled in solving complex problems with strong problem-solving abilities. A continuous learner with a keen interest in large language models, machine learning, and emerging technologies. Recognized for innovation and leadership in tech projects.

Soft Skills

- ♦ Adaptability
- ♦ Documentation
- ♦ Problem Solving
- ♦ Project coordination
- ♦ Continuous Learning
- ♦ Attention to Accuracy
- ♦ Effective Communication

Technical Skills

- ♦ NLP
- ♦ Data Analytics
- ♦ Version Control
- ♦ Data Visualization
- ♦ Generative AI LLMs
- ♦ Tune Hyper parameters
- ♦ Machine & Deep Learning

Languages & Tools

- ♦ Python & SQL
- ♦ GIT & Github
- ♦ Langchain
- ♦ Flask
- ♦ MS Azure, AWS
- ♦ Matplotlib, Power BI
- ♦ Tensorflow, Scikit Learn

EDUCATION

Bachelors of Computer Science

The University of Faisalabad • Faisalabad, Pakistan

CGPA: 3.5

2019-2023

Diploma of Artificial Intelligence & Computing

Presential Initiative for Artificial Intelligence & Computing

2020-2022

PROFESSIONAL EXPERIENCE

Technupur, Faisalabad

AI Engineer

Jan 2024 – Present

Started as a Power Platforms Developer, swiftly transitioning into the AI field, fueled by a longstanding passion. I've led projects in OCR, LLMs GenAI, and advanced NLP.

Projects:

- Created an insurance RAG chatbot in Azure AI Studio with an admin panel for insights and automatic model retraining based on user-uploaded data.
- Conducted OCR projects to extract data from PDFs.
- Collaborated with the data engineering team on handling database data loads.
- Learn NLP techniques and gained expertise in LLMs, pretrained LLM models, techniques like LoRA and QLoRA, using Hugging Face lib.
- Engaged in Pythonic AWS projects, including an ETL process that transformed trip data, calculated CO2 emissions, and stored results via Lambda and Fargate deployment.

6 Months

Power Platforms Developer

Intern turned full-time Power Platforms Developer, led projects and mentored interns. Designed and developed various client and internal projects, such as intranet systems and automated workflows:

Projects:

- *Led development of intranet system using Power Apps and Power Automate & Sharepoint.*
- *Built OCR systems and automated workflows with AI Builder, Power Apps, Power Automate, and Power BI.*
- *Implemented SharePoint solutions with custom SPFx components using React for clients and internal use.*

The Sparks Foundation, Remote Data Analyst intern

1 Month

As a Data Analyst intern, I ensure data accuracy through cleaning and visualization using Python, while also participating in Kaggle competitions to refine problem-solving and model-building skills.

- *Performing data cleaning, pre-processing, validation, and Python-based data visualization.*
- *Exploring and analyzing Kaggle datasets and participating in Kaggle competitions for skill development.*

Projects

AGFOW, Plant Disease Detector

Developed a full-stack system combining Django, Flutter, and Flask for user authentication, data processing, and machine learning predictions, ensuring a seamless and secure user experience.

Med Rag Chatbot

Developed an RAG chatbot in Azure AI Studio for the medical industry, enabling users to upload reports for comparison against existing data while providing detailed responses to specific medical queries.

SqlQuery Bot

Developed a chatbot using the PaLM 3 model with a few-shot training approach, enabling users to interact with an SQL database in natural language via LangChain for seamless query generation."

LICENSES & CERTIFICATIONS

Exam 98-381 Introduction to Programming Using Python
Microsoft Technology Associate (MTA)

2021

Career Essentials in Generative AI
Microsoft

2023

Achievements

- Grand prize winner in China-Asean International IoT Competition 2023.
- Selected for the Prime Minister's Innovation Program, ranked among the top 250 out of 12,000 projects by NUST.
- Top 10 participant in the Lyallpur Innovation Competition organized by TUF.