

AHMAD MAKKI

Lahore, Pakistan

📞 +923042725542 ✉ makkia52@gmail.com 🔗 [linkedin.com/in/EngrAhmadMakki](https://www.linkedin.com/in/EngrAhmadMakki) 🐙 github.com/EngrAhmadMakki

Education

Punjab University College of Information Technology - PUCIT

Sep. 2023 – Present

MS Data Science (3.3 CGPA)

Lahore, Punjab

University of Engineering and Technology - UET

Sep. 2017 – Oct. 2021

B.Sc Electrical Engineering

Lahore, Punjab

Relevant Coursework

- Machine Learning
- Statistical Analysis
- MLOps
- Big Data Analytics
- NLP
- Tools and Techniques
- DevOps
- Research Methodology

Experience

Dawn Pvt. Ltd.

Dec. 2021 – Aug. 2023

Management Trainee Engineer

Lahore, Punjab

- Managed and optimized maintenance and procurement processes using the PM and MM modules in SAP S4/HANA.
- Collaborated with the IT team to integrate SAP solutions, enhancing operational efficiency and reducing downtime.
- Developed and implemented strategies for effective materials management, ensuring timely procurement and inventory control.
- Conducted training sessions for team members on SAP S4/HANA functionalities to streamline plant operations and support continuous improvement initiatives.

Projects

Smart Conversational Agent for Mental Health Support | *Python, ML, DL, NLP, LLMs*

July 2024

- Developed a project on a Smart Conversational Agent to provide mental health support using various approaches.
- Implemented rule-based methods using CountVector, TF-IDF, and similarity matrices for initial response generation.
- Used retrieval-based techniques, including CNN, RNN, LSTM, GRU, and BiLSTM models, to retrieve appropriate responses based on user input.
- Incorporated generative-based models like GPT-2, GPT-3.5 Turbo, Cohere, MistralAi, and Ai21 Studio to create natural and empathetic conversations.

Predictive Modeling for Student Final Scores | *Python, ML & DL Models*

March 2024

- Developed a predictive model to estimate students' final scores based on initial assessments.
- Trained the model using previous course data and tested it with data, focusing on the transition from initial to final.
- Utilized datasets from morning sessions for training and afternoon sessions for testing, predicting student scores from the 5th activity onward.

Kubernetes ML Model Deployment Project | *Minikube, Kubernetes, ML Models*

February 2024

- Deploy ML Model: Using Minikube, deploy an ML model on a pod, and demonstrate NodePort/LoadBalancer access.
- Replica Scaling: Scale the pod to 1-5 replicas, showing the IP address of the serving pods.
- Performance & Autoscaling: Test CPU saturation, scale to two pods, and implement autoscaling in Kubernetes.

Certifications

Coursera

Fall 2023 – Present

IBM, DeepLearning.AI

Lahore, Punjab

- Prompt Engineering by DeepLearning.AI
- LangChain Chat with Your Data by DeepLearning.AI
- Python for Data Science, AI & Development by IBM
- Deep Learning Specialization by DeepLearning.AI (5 Course Series)

Technical Skills

Languages & Libraries: Python, Pandas, NumPy, NLTK, Scikit-learn, TensorFlow, Keras, LLMs (GPT-3.5 turbo, GPT-4, Cohere, MistralAi, and Ai21 Studio, LLAMA3)

Developer Tools: VS Code, Jupyter Notebook, Google CoLab, Git, Docker, Kubernetes

Technologies/Frameworks: Linux, Jenkins, GitHub, Spark, Hadoop, Flink, Matplotlib, Seaborn