

Abdul Manan

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Education

Aug 2018 | **BS in Computer Science**, *FAST-NUCES, Lahore, Pakistan.*
May 2022

Experience

Jun 2022 – **Data Engineer**, *Strategic Systems International*, Lahore, Pakistan.

- Present
 - Developing and Integrating deep learning models and data pipelines
 - Integrated OpenAI API into data workflows, leveraging cutting-edge AI capabilities for enhanced data analysis and insights.
 - Developing RESTful API's using modern frameworks that integrate with deep learning models.
 - Conducting data extraction, transformation and loading (ETL) processes to prepare raw data for analysis.
 - Maintaining infrastructure as a code (IaC), provisioning and orchestrating single or multi-cloud deployments.

Jan 2022 – **Data Scientist**, *Addressable Insights*, California, United States.

- Jun 2022
 - Collected, processed, and analyzed large-scale datasets to support data-driven decision-making.
 - Developed and applied prompt engineering techniques for effective topic modeling using OpenAI tools.
 - Fine-tuned GPT models to meet specific business requirements and improve their relevance and performance.
 - Implemented NLP techniques to analyze and interpret textual data accurately.

Jan 2021 – **Data Science Researcher**, *FAST-NUCES*, Lahore, Pakistan.

- May 2021
 - Collaborated with Research Engineers to implement Forecasting models to improve and provide data forecast.
 - Leveraged expertise in most modern deep learning frameworks to solve complex NLP tasks.
 - Conducted research to stay abreast of the latest developments in Generative AI.

Skills

Programming Python, C++, SQL, Javascript, Java

Frameworks PyTorch, FastAPI, Tensorflow, Flask, OpenAI, LangChain, Hugging Face, PySpark, Kafka

Tools AWS, Apache Airflow, Terraform, Microsoft SQL Server, TOAD for Oracle, pgAdmin for Postgresql, Docker

Projects

Patronizing and Condescending Language Detection, *Python, LLMs, TensorFlow, PyTorch*.

Leveraged Machine Learning classifiers as well as Deep Learning models and LLMs for binary and multiclass classification to detect and categorize condescending Language.

OpenAI for Product Support, *Python, OpenAI API, AWS, Generative AI, Linux, Prompt Engineering*.

Fine-Tuned OpenAI Models for AI-Powered Customer Assistance. The project's core objective was to enhance product support services by integrating finely-tuned OpenAI models into customer interactions. The Fine-tuned OpenAI model was deployed on AWS.

NFT Platform, *Python, AWS, Pyspark, FastAPI, Terraform, Docker, Numpy*.

Created a financial technology platform for collectibles by ingesting raw data and later on transforming and analyzing it to get the latest trends. AWS microservices along with orchestration tools were used to perform successful ETL and presenting data to end users.

COAGO MES, *SQL, Oracle, ETL, Data Ingestion*.

Maintained a MES tool built in Oracle ecosystem that helps Data Engineers to seamlessly integrate and optimize manufacturing operations