Hassan Ali Khan

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SUMMARY

I am a Data Engineer with 2+ years of experience in developing data-driven solutions. I specialize in managing data pipelines, cloud migrations, and creating analytics dashboards in Power BI. With expertise in deep learning models like DistilBERT and RoBERTa, I enhance applications in e-commerce and healthcare. Proficient in Python, SQL, and Azure technologies, I leverage data to drive insights and improve operational efficiency.

SKILLS

Skills: Azure (Certified), Databricks, Power BI, ETL Processes, Azure Key Vault, Azure Datalake, Azure Data Factory (ADF), Data Pipeline Development, Data Analysis, Data Processing, CI/CD, MySQL, Python, C, C++, SQL, NLP, Machine Learning, numpy, pandas, seaborn, Scikit-learn, TensorFlow, PyTorch, Linux, Docker, Kubernetes, AWS EC2, Ansible.

EXPERIENCE

Systems Limited   **Nov 2023 - Aug 2024**
Data Engineer
- Managed client projects as a Data Engineer, overseeing data pipelines and executing data migration from on-premises to Azure cloud architectures using Azure Data Factory, Data Lake, Azure Databricks, and Azure Synapse Analytics.
- Developed and optimized ETL pipelines with Azure Key Vault for secure credential management, ensuring data quality and integrity while handling day-to-day ad hoc requests for data access from clients.
- Created interactive dashboards and reports in Tableau and Power BI, leveraging DAX and data modeling techniques to present insights visually and support client decision making.
- Proficient in Python, SQL, and Azure technologies driving data processing, analysis, and reporting tasks effectively.

Codistan Ventures   **Aug 2023 - Nov 2023**
AI / ML Engineer
- Developed a chatbot for a modern e-commerce platform using DistilBERT, enabling integration with their platform to handle basic FAQs and gather customer feedback, with close attention to detail.
- Implemented sentiment analysis on customer feedback using VERDA and RoBERTa models, provide insights on positive and negative sentiments to improve the client's platform.
- Utilized machine learning frameworks such as TensorFlow, PyTorch, and Keras for model development, alongside libraries like NumPy, Pandas, scikit-learn, and Seaborn for data preparation and visualization.

PROJECTS

BLINKIT – Retail Analytics Dashboard
- Utilized Power BI, DAX, and data modeling techniques to develop an interactive retail analytics dashboard for Blinkit, processing data from over 5,500 items across multiple store locations.
- Enabled management to track sales performance effectively, facilitating data-driven decisions regarding inventory and store operations.
- Enhanced business insights through the visualization of sales data in order to impact strategic planning and operational improvements.

AITRAX – Pulmonary Fibrosis Progression Using Deep Learning (Kaggle Competition)
- Developed deep learning models using TensorFlow and Keras to predict and track pulmonary fibrosis disease progression with an accuracy of 72.56%.
- Leveraged medical imaging data, including CT scans, to train the model, improving the understanding of disease patterns.
- Contributed to the development of more effective treatment strategies for pulmonary fibrosis, enhancing patient outcomes through data-driven insights.

EDUCATION

University of Eastern Finland – Joensuu, Finland
International Master's in Information Technology

NUCES, FAST – Islamabad
Bachelor of Computer Science

CERTIFICATIONS

Microsoft: Microsoft Azure Fundamentals (AZ-900)   **IBM**: Tools for Data Science
Coursera: Machine Learning Specialization   **IBM**: Databases and SQL for Data Science (Python)