Hassan Ali Khan

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SUMMARY

As a Data Science professional with over 1.5 years of experience, I am driven by a passion for building robust data infrastructures to enhance organizational decision-making and performance. With expertise in designing and managing data pipelines, ETL processes, and big data technologies, I ensure seamless data flow and system stability. My experience spans developing interactive business intelligence dashboards, implementing machine learning models, and creating automated reporting solutions that drive significant business value. Proficient in Python, SQL, and Power BI, I efficiently query, optimize, and manage data storage systems while translating complex data into actionable insights.

SKILLS

Skills: Python, SQL, AWS, Docker, ETL Processes, Big Data Processing, Data Visualization, Data Analysis, Data Processing, Database Management, NLP, Data Pipeline Development, MySQL, Data Modeling, Data Visualization, Ansible, MobaXterm,

EXPERIENCE

Systems Limited   Nov 2023 - Aug 2024
Data Scientist
- Proficiently managed ETL pipelines, daily operations monitoring, and troubleshooting tasks, ensuring seamless data flow and system stability.
- Created data visualizations and reports in Power BI, supporting business insights and decisions.
- Developed data models and conducted analysis using Python and SQL, driving predictive analytics and data accuracy.
- Automated data processing and infrastructure with Ansible, Docker, and Linux, improving operational efficiency and reducing manual work.
- Managed containerized applications using Docker on Linux servers for seamless, scalable data workflows.

Codistan Ventures   Aug 2023 - Nov 2023
AI / ML Engineer
- Developed and deployed advanced LLMs, including BERT and GPT-3, using transfer learning and fine-tuning to tackle complex NLP challenges, enhancing the company's capabilities.
- Collaborated with cross-functional teams to gather requirements, design end-to-end AI pipelines, and implement cutting-edge algorithms, leveraging neural networks, deep learning frameworks, and reinforcement learning for efficiency and innovation.
- Conducted extensive data analysis, GPU-accelerated model training with optimized hyperparameters, and utilized ensemble learning techniques, resulting in improvements in model performance in various domains

EDUCATION

University of Eastern Finland – Finland   Sep 2024 – Sep 2026
International Master's in Information Technology
NUCES, FAST – Islamabad   Aug 2019 – May 2023
Bachelor of Computer Science

PROJECTS

BLINKIT – Retail Analytics Dashboard
- **Tools Used:** Power BI, DAX, Data Modeling
- **Project Impact:** Developed an interactive retail analytics dashboard for Blinkit, processing data from 5,500+ items across multiple store locations. The dashboard helped management track $776K in sales performance and make data-driven decisions about inventory and store operations.

AITRAX – Pulmonary Fibrosis Progression Using Deep Learning
- **Tools Used:** TensorFlow, Keras, Python, Deep Learning, CNN, Medical Imaging Analysis
- **Project Impact:** Developed and implemented a deep learning model for predicting pulmonary fibrosis progression using medical imaging data. The solution leverages neural networks to analyze CT scans, contributing to improved treatment strategies and patient care outcomes. Successfully deployed a model that aids healthcare professionals in tracking disease progression and making informed treatment decisions.

CERTIFICATIONS

IBM: Tools for Data Science
IBM: Data Science Methodology
IBM: Databases and SQL for Data Science (Python)

Microsoft: Microsoft Azure Fundamentals (AZ-900)
IBM: Machine Learning with Python
IBM: Data Analysis With Python