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. I also have strong knowledge of databases and SQL, allowing me to efficiently query, optimize, and manage data storage systems. I aim to continuously innovate and create impactful solutions.

SKILLS

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

EXPERIENCE

Systems Limited - Lahore, Pakistan **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 - Islamabad, Pakistan **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 – Pakistan Aug 2019 – May 2023

Bachelor of Computer Science

PROJECTS

AITRAX – Pulmonary Fibrosis Progression Using Deep Learning

- Using TensorFlow and Keras, the model predicts and tracks disease progression with 72.56% accuracy by leveraging medical imaging data like CT scans for training deep learning models. The project's results have contributed to developing more effective treatment strategies for pulmonary fibrosis and enhancing patient outcomes.

Cardiovascular Risk Prognostication and Classification System

- The model achieved a 96.82% accuracy rate in predicting heart disease likelihood, as assessed through cross-validation and comparison with actual medical outcomes. This success underscores the potential of machine learning in healthcare, suggesting that similar models could be developed for other diseases to enhance global health outcomes.

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