Waqas Kaleem

Data Scientist

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SUMMARY

A knowledgeable, enthusiastic computer science expert with leadership skills, having a strong foundation in problem-solving. Passionate about Artificial intelligence and data science. Versatile, open to change, and driven by a continuous learning mindset. Possess a strong grasp on past experiences, capable of learning from mistakes, and applying acquired insights to future endeavors.

SKILLS HIGHLIGHTS

Languages: Python, Java
Databases: : MongoDB, MySql, Cassandra, PostgreSql
Testing: Junit, Pytest
Big Data: Kafka, Apache Spark
Deployments: Docker, Kubernetes

WORK EXPERIENCE

Data Scientist (Lead Role)   2021 – Present
I2c, Lahore, Pakistan
- **Fraud Detection for Banks:** Spearheaded the development of a robust Fraud Engine utilizing advanced feature engineering techniques to detect and prevent fraudulent activities within banking transactions.
- **Big Data Architecture and Optimization:** Successfully revamped the Stats service to handle Big Data in a distributed Spark architecture, ensuring efficient processing and analysis of large datasets.
- **Real-time Model Monitoring:** Designed and implemented a Python-based model monitoring service for real-time analysis, detecting data drift and ensuring the continuous integrity of machine learning models.
- **Testing Excellence:** Introduced JUnit for RESTful applications and pytest for Python applications, enhancing testing and test planning methodologies for improved reliability and code quality.
- **Scaling for Big Data Transactions:** Resolved challenges in handling big data transactions by implementing multiprocessing techniques and overhauled the architecture to efficiently manage 3 million transactions.
- **Hadoop and SQL Expertise:** Utilized Hadoop for efficient data storage and employed SQL for data extraction in various applications, optimizing data processing and retrieval workflows.

- **Data Analysis and Feature Creation:** Applied data analysis techniques to glean actionable insights from transactional data, creating meaningful features to enhance decision-making processes.
- **Containerization and Orchestration:** Implemented Docker for containerization and Kubernetes for orchestration, ensuring seamless deployment and scalability of large-scale projects.

Junior Data Scientist   2020 – 2021
Xavor Corporation, Lahore, Pakistan

- Led the development of a cutting-edge product focused on Multimodal Human Activity Detection. This innovative project seamlessly integrated grid eye and sound sensors to collect comprehensive data for accurate human activity detection.
- Led the creation of a robust Machine Learning (ML) pipeline, leveraging state-of-the-art algorithms to process and analyze data. Implemented feature engineering techniques to enhance model accuracy, resulting in a highly effective activity detection system.
- Played a pivotal role in the development of a mobile app for Android and iOS, delivering real-time insights into detected human activities with a user-friendly interface.

EDUCATION

National University of Computer & Emerging Sciences, Pakistan
Bachelor of Science — Computer Science