Danish Azhar

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Summary

Results-driven Data Scientist with expertise in analyzing complex datasets, developing predictive models, and driving data-driven decision-making. Proficient in Python, R, and SQL, with experience in machine learning, statistical analysis, and data visualization. Skilled in big data tools and cloud platforms, optimizing business processes through advanced analytics. Adept at communicating insights to stakeholders to enhance strategy and performance across various industries, including finance, agritech, healthcare, and technology.

Experience

AgReliant Genetics – Agrotechnology Firm, Westfield, IN
Data Science Consultant, January 2025 – Present

- Executed end-to-end supply chain evaluations Python, R, and Snowflake to identify cost inefficiencies in shipment consolidation and warehouse-to-customer mapping. Optimized processes through advanced data handling, extraction, processing, and quality management, reducing excess deliveries and improving fulfillment efficiency.
- Developed and implemented three key performance indicators (KPIs) in Tableau to measure delivery frequency, warehouse utilization, logistics costs, and supply-sales alignment. Leveraged exploratory data analysis (EDA), data manipulations, data visualization, and business metrics to enhance decision-making and drive operational improvements.
- Applied the INFORMS CAP 7 JTA framework after defining requirements to construct a network flow optimization model, utilizing machine learning models like XGBoost and Random Forest to assess seasonal demand fluctuations. Optimized customer-to-warehouse allocation with Solver and Python PuLP, conducted root cause analysis, and extracted business insights using advanced SQL queries.
- Integrated automation techniques within the ecosystem, complex solutions, and risk models into workflows to enhance system performance, improve operational efficiencies, and ensure alignment with organizational objectives.

Tayaba Welfare Intl. Association – Social Enterprise, Lahore, Pakistan
Junior Supply Chain Analyst, January 2023 – April 2024

- Developed a data-driven approach using Apache Spark for exploratory data analysis (EDA) for pattern recognition and data links to optimize procurement processes, ensuring robust data governance, data quality, database management, and reliable data structures for informed decision-making in aid distribution operations.
- Utilized mathematics and statistical tools and regression modeling with SAS-EM and forecasting techniques for complex analyses like time-series analysis to refine distribution route parameters, enabling the successful deployment of over 4,000 H2O Wheels to flood-impacted families in Pakistan while maintaining consistency in resource allocation workflows.
- Implemented stochastic optimization methodologies to establish resilient trade routes using Excel modeling, pivot tables, advanced analytical techniques, and quantitative methods. Optimized resource allocation for 8,000 wheels while ensuring adherence to supply chain process requirements.
- Collaborated with internal stakeholders and held group discussions to develop scalable technical business solutions, demonstrating adaptability, discipline, and a commitment to impactful results while maintaining thorough workflow documentation and process management.

DSME Global Links – Software Firm, Amsterdam, Netherlands
Business Analyst, February 2022 – December 2022

- Utilized computer science scription languages like Python, along with LLM Modeling for product engagement analysis, leveraging data warehouse systems for data management, big data querying on Databricks, and statistical modeling to generate actionable insights that drove a 12% growth rate improvement.
- Developed Tableau-based dashboards to monitor over 20 clients across regions, integrating algorithms and financial transaction insights with agile workflows to enhance performance and decision-making.
- Collaborated with internal stakeholders on market segmentation using SQL queries and Excel modeling for financial analysis, demonstrating leadership skills, adaptability in execution, consistency in reporting, and high accuracy standards.
- Maintained comprehensive workflow documentation while implementing prototype solutions for consumer-focused operations. Supported cross-functional teams in achieving system goals through scalable solutions, applying engineering principles to design innovative data solutions and initiatives aligned with business objectives.

Skills

Data Analytics, Business Analysis, Statistics, Visualization, EDA, Machine Learning, Data Pipelining, Predictive Modeling, Coding, Data Mining, Hypothesis & A/B Testing, Cross-functional Collaboration, Business Strategy, Google Analytics, Project Management, Product Management, Change Management, Interpersonal Skills, Presentation, Problem Solving, Pricing Strategy, SQL, Excel, Vlookup, Python (Pandas, NumPy, Matplotlib, Scikit-learn, NLKT, Seaborn, Beautiful Soup), Tableau, SAS EM, VBA, R Studio, PowerPoint, SPSS (ANOVA, T-Test, Z-Test, Correlation Analysis, Chi-Square Test), Cloud Computing (Azure, AWS, Google Cloud), CNN ANN, LSTM, MATLAB, Salesforce, @RISK, Palisade, Power BI, Hadoop, HDFS, Apache Spark, PySpark, DataFrame API, Snowflake, Smartsheet, JIRA.

Certifications

Microsoft - Azure AI Fundamentals (AI-900), Microsoft Azure Fundamentals (AZ-900), Salesforce - Tableau Desktop Specialist, Amazon Web Services - AWS Cloud Practitioner, INFORMS - Associate Certified Analytics Professional (aCAP®).

Education

Master of Science in Business Analytics and Information Management, August 2025
Purdue University, Daniels School of Business West Lafayette, IN

Bachelor of Science (Honors) in Management Science, June 2024
Lahore University of Management Sciences, Suleman Dawood School of Business Lahore, Pakistan