AZAM KHAN

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OBJECTIVE

Dynamic Data Professional with a Master's degree in Data Science, adept in Python, SQL, Power BI, and Excel, with practical experience in business and data analysis. Eager to leverage my expertise in data science, machine learning, and data engineering to enhance business process optimization, data infrastructure development, and advance predictive analytics capabilities

EDUCATION

MSc Data Science, University of Essex Oct 2022 - Oct 2023
Core modules completed: Data Modeling, Applied Statistics, Machine Learning, SQL Databases, Data Visualization, and Data-driven Decision Making.

BSc Mechanical Engineering, University of Engineering and Technology Peshawar Sep 2016 - Dec 2020
Completed coursework in Fluid Mechanics, Thermodynamics, Machine Design, and Automatic Controls.

CORE COMPETENCIES

- **Technical Skills**
  - Proficient in **Python, SQL, and R** for data analysis and modeling.
  - Experienced in building and optimizing **data pipelines, architectures, and data sets**.
  - Experienced with **PowerBI** and **Tableau** for data visualization.
  - Familiar with **scikit-learn, Numpy, and Pandas** for machine learning and data manipulation.
- **Soft Skills**
  - Proven organizational and planning abilities, adept at managing and systematizing large volumes of data and documents
  - Demonstrated analytical thinking and decision-making abilities.
  - Effective communicator with a knack for leadership.
  - Capable of collaborating in diverse environments.

PROFESSIONAL EXPERIENCE

Business Analyst Jan 2022 - Aug 2022
Dawood Corporation *Remote, Pakistan*

- Leveraged my **analytical thinking** to utilize **Power BI** in generating insightful weekly and monthly reports, directly supporting strategic decision-making with data-driven insights into product performance and business operations.
- Led a comprehensive market trend analysis project using **SQL**, enabling a notable 15% increase in **operational efficiency**. By harnessing SQL to analyze complex datasets, I extracted actionable insights that informed strategic recommendations, ultimately enhancing business outcomes.
- Fostered a culture of continuous improvement and cross-functional cooperation, enhancing team productivity by 10%. My role involved synthesizing data from various sources, requiring advanced skills in **Excel** for **data manipulation and analysis**, ensuring accurate and impactful **reporting**

Data Analyst Jan 2021 - Dec 2021
Evamp and Saanga *Dubai, UAE*

- **Employed Python and machine learning algorithms** for predictive analysis, boosting data-driven forecasting capabilities. This work was pivotal in contributing to strategic planning, providing high-impact predictions on future trends and enhancing the company's decision-making processes.
- **Communicated complex data concepts** clearly to non-technical stakeholders, spearheading data manipulation, cleaning, and transformation processes that ensured the accuracy and reliability of data for critical business decisions
- **Demonstrated adaptability and teamwork in diverse environments** by streamlining and implementing integration solutions, honing troubleshooting and debugging skills, and effectively collaborating with multiple departments to achieve seamless data integration and operational efficiency

PROJECTS

MSc : Dissertation (Unveiling Risk Patterns: Investigating Risk in Online Peer-to-Peer Lending):

Conducted an in-depth machine learning analysis of LendingClub's extensive loan dataset to identify critical risk patterns. This research provided actionable insights into predicting potential loan defaults, combining advanced data analytics with a keen understanding of financial risk management. The project demonstrated a robust application of machine learning techniques in a real-world financial context, highlighting my ability to translate complex data into meaningful, business-focused predictions and strategies.

Empathy Profiling through Eye Fixations: Developed predictive models using Random Forest and Gradient Boosting to transform raw eye fixation data into quantifiable empathy scores, aiding in behavior analysis.

House Price Prediction and Market Analysis: Engineered predictive models using advanced data analytics techniques to forecast house prices, delivering actionable insights for the real estate sector.

Analyzing the Impact of Energy Prices on Consumer Behavior: Conducted a comprehensive data-driven analysis to uncover consumer behaviors influenced by energy prices, guiding strategic decision-making.

Design and fabrication of small-scale flow reactor for biomass analysis: Designed and fabricated a small scale flow reactor for biomass sample analysis. Gained hands-on experience in laboratory techniques, data collection, and analysis, demonstrating adaptability and technical proficiency.

Life Expectancy: Built a Linear Regression Model to predict Life Expectancy across continents. Achieved high accuracy in predictions, offering valuable insights into factors influencing life expectancy, thereby aiding public health policy decisions.

CERTIFICATES

- **Google Data Analytics Professional Certificate**
- Initiating and Planning Projects *(Coursera)*
- Data Manipulation with pandas *(DataCamp)*
- Data Analytics with Pyspark *(Udemy)*
- Python Data Science Toolbox *(DataCamp)*
- Introduction to Data Visualization with Seaborn *(DataCamp)*
- Joining Data with pandas *(DataCamp)*

AWARDS & HONORS

Chair, American Society of Mechanical Engineers (ASME) 2019-20

- Led the SMART TECH 2020 event, focusing on Pakistan's digital transformation in IoT, AI, and Big Data, attracting 2,000 attendees. Subsequently led the UET Peshawar Chapter, coordinating various events and collaborating with Khyber Pakhtunkhwa Technology Board and National Incubation Centre Peshawar.