
SUMMARY

Highly skilled and detail-oriented Data Analyst with a comprehensive background in statistical analysis, machine learning, and data visualization. Over one year of hands-on experience, I have demonstrated expertise in extracting actionable insights from complex datasets using advanced tools such as Microsoft Power BI, Python, and SQL. Proficient in developing predictive models and conducting thorough data analysis to inform strategic decision-making. Possessing strong analytical and problem-solving abilities, I excel in collaborating with cross-functional teams to deliver innovative solutions and drive business outcomes.

EDUCATION

Arab Open University - EG | *Bachelor of Science in Information Technology and Computing (Computer Science)*

- Cumulative **GPA:** 3.50 / 4 **Graduation** | 09/2019 – 02/2023

The Open University - UK | *Bachelor of Science in Information Technology and Computing (Computer Science)*

- Classification:** Second Class Honours (1st Division) **Graduation** | 09/2019 – 02/2023

Honors and Awards:

- Completed [Bachelor's degree](#) in three and a half years.
- Received a Certificate of Excellence in March 2022 for exceptional performance, achieving a high GPA, and demonstrating dedication through hard work.

SKILLS

Technical Skills:

- Python, SQL, Microsoft Power BI, Java
- Statistical Analysis, Descriptive Analytics (Central Tendency, Variation, Position, Skewness, Kurtosis)
- Diagnostic Analytics (Hypothesis Testing, Correlation, Association)
- Predictive and Prescriptive Analytics (Regression Analysis, Forecasting, Clustering, Classification)
- Machine Learning (Pre-Modeling Tasks, Feature Selection, Data Splitting, Data Scaling, One-Hot Encoding)
- Supervised Machine Learning, Unsupervised Machine Learning, Algorithm Evaluation
- Hypothesis Testing (One-way ANOVA, Two-way ANOVA, Independent-sample t-test, Paired-sample t-test)
- Data Mining, Data Wrangling, Data Cleaning, Data Manipulation (Pandas, NumPy)
- Data Extraction, Transformation, Loading (ETL / ELT), Data Analysis
- Interactive Reports and Dashboards, Pattern Recognition

Functional Skills:

- Statistics Proficiency, Analytical Skills, Problem-Solving
- Probing Skills, Data Visualization, Hypothesis Formulation, Time Series Forecasting
- Exploratory Data Analysis (EDA), Regular Expression, Critical Thinking, Decision-Making
- Business Intelligence, Quantitative Analysis, Data Quality, Data Management
- Data Validation, Quality Control Processes, Data Requirements
- Data Accuracy, Data Integrity, Data Consistency

Soft Skills:

- Communication Skills, Collaboration, Attention to Detail, Curiosity
- Adaptability, Creativity, Time Management, Resilience, Presentation Skills

WORK EXPERIENCE

Data Analyst

02/2023 – 02/2024

Although I lack formal work experience within a corporate setting, I have diligently honed my skills and expertise through immersive hands-on projects and self-directed learning. Below, I present key highlights from my project portfolio:

Key Projects:

Supply Chain Analytics and Optimization:

- Leveraged Python, SQL, and Microsoft Power BI to analyze supply chain data, identify inefficiencies, and optimize processes for enhanced performance.
- Developed and implemented data-driven solutions to streamline logistics operations and reduce costs, resulting in improved efficiency and profitability.

Customer Segmentation:

- Utilized K-Means Clustering algorithm in Python to segment customers based on their purchasing behavior, facilitating targeted marketing strategies and personalized customer experiences.

Credit Card Fraud Detection:

- Employed Machine Learning techniques in Python to develop a fraud detection system, effectively identifying and preventing fraudulent transactions, thus minimizing financial losses for the organization.

Breast Cancer Classification:

- Applied machine learning algorithms to classify breast cancer tumors as malignant or benign, contributing to early diagnosis and improved patient outcomes.

Diabetes Prediction:

- Developed a predictive model using machine learning algorithms to forecast the likelihood of diabetes onset based on patient health data, aiding in preventive healthcare measures.

Gold Price Prediction:

- Utilized time series analysis and machine learning algorithms to predict gold prices, providing valuable insights for investors and traders in the commodities market.

Medical Insurance Cost Prediction:

- Employed regression analysis and machine learning techniques to predict medical insurance costs for individuals based on various factors such as age, BMI, and smoking habits, assisting insurance companies in risk assessment and pricing strategies.

Portfolio Website:

Explore my comprehensive portfolio of projects and reports on my dedicated website. Visit [My Portfolio Website](#) to delve into detailed case studies, view project highlights, and gain insights into my data analysis and visualization expertise.

COURSEWORK

IBM Data Analyst Professional Certificate

Coursera, 2023