Peter Romany Frances

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SUMMARY

Highly adept and results-driven Data Analyst with a robust foundation in statistical analysis, machine learning, and data visualization. With 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 with a proven ability to collaborate with cross-functional teams to identify business needs, 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, HTML, CSS, OOP
- 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)
- Normality and Homogeneity Tests (Shapiro-Wilk, Kolmogorov-Smirnov, Levene test)
- Data Mining, Data Wrangling, Data Cleaning, Data Manipulation (Pandas, NumPy), Pattern Recognition
- Data Extraction, Transformation, Loading (ETL / ELT), Data Analysis, Interactive Reports and Dashboards

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**

While I may lack formal experience in a corporate environment, I've dedicated myself to refining my skills and expertise through hands-on projects and self-directed learning, augmented by over one year of practical experience. Below, I outline 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 that improved efficiency and profitability by streamlining logistics operations and reducing costs.

Customer Segmentation:

- Utilized the K-Means Clustering algorithm in Python to segment customers based on their annual income and spending score, 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**