Peter Romany Frances

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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**

<u>**Honors and Awards:**</u>

- 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

Statistical Analysis and Visualization:
Proficient in utilizing statistical analysis and visualization tools, including Microsoft Power BI.

Programming Languages:
- Expertise: Proficient in Python, Java, and Object-Oriented Programming (OOP).
- Additional Skills: Strong knowledge of SQL; familiarity with HTML and CSS.

Descriptive Analytics:
Mastery in applying Measures of Central Tendency, Variation, Position, Skewness, and Kurtosis for insightful data exploration.

Diagnostic Analytics:
Skilled in conducting Hypothesis Testing, Correlation, and Association to uncover patterns and relationships.

Predictive and Prescriptive Analytics:
Proficient in Regression Analysis, Forecasting, Clustering, and Classification techniques for predictive and prescriptive modeling.

Machine Learning:
- Pre-Modeling Tasks:
Proficient in essential pre-modeling tasks such as Data Wrangling, Feature Selection, Data Splitting, Data Scaling, and One-Hot Encoding.
- Supervised Machine Learning:
Applied skills in Regression and Classification techniques for various problem domains.
- Unsupervised Machine Learning:
Experienced in implementing Clustering algorithms for unsupervised learning tasks.
- Algorithm Evaluation:
In-depth understanding of algorithm evaluation, utilizing the Metrics module to assess model performance.

Functional Skills

Statistics Proficiency:
Expertise in analyzing data, validating analyses, and identifying fallacies and logical errors.

Analytical Skills:
Advanced skills in researching and interpreting data, theorizing, and making accurate forecasts.

Problem-Solving:
Proven ability to generate innovative solutions for complex problems.

Probing Skills:
Adept at identifying and defining problem statements and desired outcomes.

Data Visualization:
Skillful in creating clear and compelling visualizations to effectively communicate analysis results.

Hypothesis Formulation:
Ability to formulate new hypotheses or research questions to drive data exploration.

Time Series Forecasting:
Specialized expertise in forecasting trends through comprehensive time series analysis.

Exploratory Data Analysis (EDA):
Proficient in conducting EDA to gain valuable insights from complex datasets.

Regular Expression:
Utilize regular expressions to streamline and enhance data wrangling processes.

Technical Skills

Statistical Analysis and Testing:
- Hypothesis Testing:

Extensive experience in various hypothesis tests, including one-way ANOVA, two-way ANOVA, independent-sample t-test, and paired-sample t-test and their underlying assumptions.

- Normality and Homogeneity Tests:

Proficient in conducting tests for normality (Shapiro-Wilk, Kolmogorov-Smirnov) and homogeneity of variance (Levene test) to ensure robust statistical analyses.

Data Manipulation:

Utilize Pandas and NumPy to efficiently manipulate and process data.

Soft Skills

Ability to collaborate effectively with business and cross-functional teams.

Effective communication to report and present findings.

Naturally curious, allowing new questions to surface, challenging assumptions and hypotheses, with keen attention to detail.

PROJECTS

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.

- Supply Chain Analytics and Optimization with Python, SQL, and Microsoft Power BI.
- Customer Segmentation using K-Means Clustering with Python.
- Credit Card Fraud Detection using Machine Learning with Python.
- Breast Cancer Classification using Machine Learning with Python.
- Diabetes Prediction using Machine Learning with Python.
- Gold Price Prediction using Machine Learning with Python.
- Medical Insurance Cost Prediction using Machine Learning with Python.

COURSEWORK

IBM Data Analyst Professional Certificate   **Coursera, 2023**