

# Peter Romany Frances

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## EDUCATION

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**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.

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## SKILLS

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### 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.

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## **PROJECTS**

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#### **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.

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## **COURSEWORK**

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IBM Data Analyst Professional Certificate

Coursera, 2023