

# Nouran Amr Mohamed

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## Personal Statement

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Hardworking student seeking internships to leverage the resources and networking opportunities with like-minded peers and industry experts, engage in cutting-edge research, and gain hands-on experience through internships and consulting projects. Bringing forth a positive attitude and the willingness and motivated to learn new related skills.

## Education

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- **Egyptian Russian University [2021 – 2025]**
  - **B.Sc.** in Business Analytics
  - Year–3, Cumulative GPA 3.41
  
- **Aliaa Private School [2008 - 2021]**

## Work Experience

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- **Group Projects:**
  - Immigration is the process of moving to a new country or region with the intention of studying and living there, This study was conducted with a sample of ERU students, comprising 33 individuals from various faculties. The aim was to investigate the impact of immigration on their university life and psychological well-being to reveal the nature of the relationship between psychological feeling of immigration and the performance of students, Using SPSS we analyzed our data in two parts descriptive analysis and inferential analysis.
  - We designed a project that is used to understand and gain insight about how total grades can be affected by different variables, analyzing data by visualization, and conducting dashboards using excel that can easily display real time data and update it frequently.
  - We have leveraged excel to craft dynamic dashboards offering comprehensive insights into retail performance metrics. Through data analysis and visualization techniques.
  - We have utilized Power BI to create insightful dashboards that illuminate key metrics and trends in customer revenue and profitability. Through data analysis and visualization techniques.
  - we developed a comprehensive car rental system, employing the Software Development Life Cycle (SDLC) methodology. Beginning with planning, followed by analysis which included gathering of requirements, design, and implementation using SQL , we used tools like IDEA Modeler and SQL and gave a report to ensure the validity of KPIs
  - We contributed to the development of a comprehensive system inspired by Uber's model, utilizing SQL as a tool for implementation and ERD plus for Enhanced ERD. Our project had various stages, from planning to implementation, focusing on efficient database management and system functionality
  - There are many data structures that can be used for efficient implementation of a system so we developed a mini and simple project using one of these data structures which was linked list.
  - In this project, we embark on a comprehensive data analysis journey with a primary focus on the "Cardiovascular Disease" dataset obtained from Kaggle. The significance of selecting this dataset lies in its crucial role in public health, providing a sturdy foundation for unravelling patterns and risk factors

associated with cardiovascular diseases (CVDs). Our exploration spans various dimensions, from understanding the dataset's composition to employing advanced analytical techniques using Python. This will help us identify key risk factors by understanding the relationship, trends, patterns, distribution and interactions between variables and then preprocessing and visualization to make it easier to understand data and raise awareness and help reduce those risk factors.

- In this project, we embark on a comprehensive data analysis journey with a primary focus on the "World Values Survey 2018" dataset as it pertains to Egypt. The significance of selecting this dataset for Egypt lies in its pivotal role in understanding the intricate factors influencing corruption within the country during the year 2018 choosing this data was deeply rooted in its recognized importance within social science literature and is interesting for researchers, policymakers, and anyone curious about understanding the various factors influencing corruption in Egypt. Our exploration spans various dimensions, from understanding the dataset's composition and then preprocessing and visualization, it might help predict and anticipate corruption levels in Egypt. By implying advanced analytical techniques and different libraries and packages using Python.
- In this project, our focus is on a comprehensive data analysis journey, centring around the "Fast Food Nutrition" dataset obtained from the OpenIntro website, a reliable repository of datasets. The selection of this dataset is grounded in its pivotal role in illuminating dietary patterns and nutritional components associated with fast-food consumption. This dataset compiles information related to various food items offered by different restaurants, aiming to investigate the nutritional factors associated with fast food. Drawing from diverse sources such as restaurant menus, nutritional labels, or a combination of references ensures a comprehensive representation of nutritional parameters, then preprocessing and visualization to help Improving nutritional components balancing that can be offered for dietary customers.
- It is a group project that utilized R to analyze and predict car prices. Responsibilities included data collection and cleaning, performing exploratory data analysis (EDA), developing predictive models (e.g., linear regression, decision trees), and evaluating model performance. Enhanced skills in R programming, statistical analysis, and teamwork.
- I participated in a group project where we utilized R programming to develop a lead scoring model. Our team conducted extensive data cleaning, exploration, and analysis on a dataset of 9,240 leads with 37 variables. We applied various predictive modeling techniques to identify key factors that influence lead conversion, enhancing the accuracy and efficiency of the sales process for potential customers
- Analyzed a retail dataset using Python, focusing on data preprocessing, exploratory data analysis, and predictive modeling. Implemented machine learning algorithms such as K-Nearest Neighbors, Logistic Regression, and Decision Trees. Conducted frequent pattern mining with the Apriori algorithm and created interactive visualizations to present key insights and support business decision-making.
- Utilized Excel to optimize production at Khalifa's Dairy Products using linear programming. Formulated an objective function and constraints to maximize profit while managing resources such as milk, yeast, and production capacity. Applied the Solver tool to determine the optimal production mix of yogurt sizes, ensuring efficient resource utilization and increased profitability.
- A group project in a Business Intelligence course, analyzing HR data to identify trends in employee performance, retention, and demographics. Developed interactive dashboards using Power BI, highlighting key metrics such as turnover rates and satisfaction scores. Provided actionable insights that informed HR strategies and initiatives.

## Skills

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- C++
- Java
- Python
- R
- Data Analysis
- Office 365

## Certificate

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- Maat for Peace, Development, and Human rights – 2021

## Strengths

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- Excellent Communication skills to present points precisely and clearly.
- Hard Working

## Personal Information

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- Date of Birth: 24<sup>th</sup> of October, 2002.
- Nationality: Egyptian.

## Languages

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- Arabic – Mother Language
- English – Fluent
- Russian – A1

## Hobbies

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- Reading
- Drawing