Mohamed Ali
Data Analyst

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Summary

As a recent graduate with a Bachelor's degree in Physics and Computer Science, I am a skilled Data Analyst seeking new opportunities in the Data Analytics field. With proficiency in programming languages such as Python, MySQL, and C++, I possess 2 years of hands-on experience in Exploratory Data Analysis, Data Visualization, Feature Engineering, Data Manipulation, Implementing Machine Learning models, and Database Management. My passion for problem-solving drives me to constantly learn and grow in my career. I am a team player who thrives in collaborative environments and is committed to delivering results.

EDUCATION

Bachelor of Science degree in Physics and Computer Science

Faculty of Science/ Helwan University

08/2021   *GPA 2.94*

⭘ Courses

- **Machine Learning Specialization** Offered By DeepLearnig.AI
- **Complete Machine Learning and Data Science** Zero to Mastery Offered By Udemy
- **CS50's Artificial Intelligence with Python** Offered By Edx.org/Harvard University
- **Computer Network CCNA** Offered By CISCO

CERTIFICATES

Advanced Data Analysis Offered By Ministry of Communications and Information Technology and Udacity.

SKILLS

- Programming Languages : Python, C, C++ and SQL
- Data Analysis Packages : NumPy, Pandas, SciPy
- Mathematics : Linear Algebra, Calculus, Statistics
- Visualization : Matplotlib, Seaborn, Tableau, Power BI
- Machine Learning : TensorFlow, Scikit-Learn
- Oracle Cloud Infrastructure ,SSIS, SSAS
- MS Excel
- Logical and Critical Thinking
- Communication Skills
- Creative thinking
- Passion for problems solving
- Agile using Jira
- Passionate about learning

PERSONAL

Military Service (04/2022 - 01/2023)
Completed

PROJECTS

Prediction of Superconductor critical temperature using Machine learning techniques

Oct 2020 - Jul 2021   **Associated with Helwan University**

I developed a machine learning model using **Pandas, NumPy,** and **Scikit-learn** to **predict the critical temperature (Tc)** of **superconductors**. The **model** was trained on a dataset of **Supercon.** I used f**eature selection, supervised and unsupervised learning**, and **features important** to identify the factors that influence Tc. The project aimed to contribute to the development of new superconducting materials with higher Tc values, which have important applications in fields such as energy generation, transportation, and medicine

Prosper Loan Exploratory Data Analysis

Nov 2021 - Dec 2021   **Associated with Ministry of Communications and Information Technology (MCIT)**

The Project involved analyzing loan data provided by Prosper. I utilized **Python, Pandas, Matplotlib, Seaborn, and NumPy** for **data cleaning, feature engineering**, and d**ata visualization.** The project aimed to gain insights into loan characteristics. I analyzed variables such as l**oan amounts, borrower rates, credit scores, employment status and loan statuses.** I created **visualizations** such as **histograms, bar charts, and heatmaps** to identify patterns and trends in the data. The project provided valuable insights into the factors that affect loans and borrower behavior, such as loan size, borrower credit score, and employment status.

The Handwritten Digit Recognition project

Feb 2023 - Feb 2023   **Associated with Freelancer**

The project aims to classify handwritten digits from 0 to 9 using **neural networks** and the **MNIST** dataset. I utilized **Python, Keras, TensorFlow, OpenCV, NumPy, Matplotlib, and Scikit-learn** for **data preprocessing, machine learning,** and i**mage manipulation**. The project involved building and training a **convolutional neural network (CNN)** to recognize the digits with high accuracy. This project demonstrates my skills in **machine learning** and **computer vision.**

Stock Market Prediction using Numerical and Textual Analysis

May 2023 - May 2023   **Associated with The Sparks Foundation**

I utilized **Python, Pandas, Scikit-learn, NLTK, and Vader Sentiment Analysis** for d**ata preprocessing, feature engineering.** The project involved training **nine machine learning models,** including L**inear Regression, Random Forest, and BayesianRidge**. I evaluated and compared the performance of the models using metrics such a**s RMSE, and R2.** The project resulted in a **RMSE of 92.99 and R2 of 0.99,** highlighting the potential of using **natural language processing techniques** to analyze textual data and improve prediction accuracy.

WORK EXPERIENCE

Electronic Technician

Tawhid Repair.

Jul 2017 - Sep 2021 (4 years 3 months)

- Repairs, installs, and inspects electronic systems mostly Smart Phones as directed through verbal or written directions, diagrams, drawings, or specifications.
- Analyzing the problem, troubleshooting, and fixing the problem.

Data Analyst

Ministry of Communications and Information Technology (MCIT), Egypt

Sep 2021 - Jan 2022 (5 months)

- Perform EDA (Exploratory Data Analysis), Draw conclusions (or even make predictions by using machine learning), and
communicate my results.
- Benefit from Multiple Python Libraries like NumPy, Pandas, Matplotlib, and Seaborn to write cleaner, faster, and more polished Codes.

Data Scientist

Freelancer.com

Jan 2023 - Apr 2023 (4 months)

- Perform data mining, exploration, and analysis.
- Create data visualizations, reports, dashboards, and data audits. Design, train, and implement machine learning algorithms. Leverage predictive models to optimize customer experiences.

Data Scientist & Business Analytics

The Sparks Foundation

May 2023 - Present (1 month)

- Write code to collect, crunch and analyze data from various internal and external sources.
- Build machine and tune learning models using Python and scikit-learn.
- Create linkages between various data within our business intelligence software to enable predictive modeling and trend analysis.

Honors & Awards

Appreciation Certificate - Ministry of Interior of Egypt
Dec 2022