

Mohamed Ali

Data Scientist

✉ Mohamed.Ali.c2021@gmail.com

📍 5th Settlement, Cairo, Egypt

🌐 linkedin.com/in/mohamed-ali-46320b216

📞 +201200104652

🔗 mohamed-ahmed-ali.github.io/Portfolio/

🐙 github.com/Mohamed-Ahmed-Ali

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

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

CERTIFICATES



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

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 **feature 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 **data visualization**. The project aimed to gain insights into loan characteristics. I analyzed variables such as **loan 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 **image 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 data preprocessing, feature engineering. The project involved training **nine machine learning models**, including **Linear Regression, Random Forest, and BayesianRidge**. I evaluated and compared the performance of the models using metrics such as **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.
- Work in an agile environment as part of an interdisciplinary development team on the implementation of those ideas.

Honors & Awards



Appreciation Certificate - Ministry of Interior of Egypt

Dec 2022