

Mohammed Hamdy

DATA ANALYST

Cairo, Egypt

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Data Analyst with 5 years of hands-on experience in data collection, data processing, and data visualization. Strong statistical knowledge and comfortable with applying common statistical techniques in different software packages.

Experience

Freelance Data Analyst

Cairo

SELF-EMPLOYED

May 2020 - July 2021

- Statistical testing and reporting services.
- Model testing and deployment services.
- Data processing and data visualization services.

Research Lab Manager

Nasr City

NATURAL WELLNESS GROUP

January 2019 - February 2020

- Creating study protocols and study plans.
- Using statistical tools to identify, analyze, and interpret patterns in collected data.
- Preparing final analysis reports, and Using data visualization tools and techniques to communicate findings.

Senior Researcher

Nasr City

NATURAL WELLNESS GROUP

May 2016 - January 2019

- Writing and reviewing Standard Operating Procedures (SOPs).
- Reviewing collected data and writing analysis reports.
- Guiding and training new executive researchers.

Executive Researcher

Nasr City

NATURAL WELLNESS GROUP

July 2014 - May 2016

- Preparation of test chemicals.
- Performing various neurological and behavioral tests.
- Data collection from test animals, and properly storing and processing this data.

R&D Chemist

10th of Ramadan City

EGYPTIAN MATCH COMPANY

February 2012 - December 2013

- Supervising the preparation of the main product.
- Testing different binders for the match head ingredients.
- Daily testing of striking and ignition performance of the match head.

Education

Cloud Based Data Science

Online

JOHNS HOPKINS BLOOMBERG SCHOOL OF PUBLIC HEALTH

2020 - 2021

Data Analyst Nanodegree

Online

UDACITY

2020 - 2020

Bachelor of Science

Cairo

AIN SHAMS UNIVERSITY

2007 - 2011

Skills

Programming Languages

- Python : Data processing with numpy and pandas; Data visualization with matplotlib and seaborn; Modeling with statsmodels and scikit-learn
- R : Data processing with dplyr and Tidyverse tools; Data visualization with ggplot2; Modeling with caret
- SQL : Good command of RDBMS such as PostgreSQL, MySQL, and SQLite

Software

- Excel : Data Analysis Toolpak; pivot tables; Macros; and VBA
- SPSS : Conducting Statistical tests; and Statistical Modeling
- Tableau : Data visualization; querying data from Databases and spreadsheets

Version Control

- Git

Projects

Communicating data findings from the analysis of Prosper's Loan data

PYTHON (NUMPY, PANDAS, MATPLOTLIB, SEABORN)

- Performing an analysis of information regarding more than 100,000 loans on Prosper with more than 80 features. features were processed and cleaned in order to gain an insight and communicate the findings concerning the features of interest such as : loan amount, interest rate, and default.

Wrangling, analyzing, and visualizing a tweet archive from Twitter

PYTHON (NUMPY, PANDAS, MATPLOTLIB, SEABORN, REQUESTS, BEAUTIFULSOUP, TWEETPY, JSON, SQLALCHEMY)

- Wrangling Twitter data that were acquired through Twitter api to create interesting and analyses and visualizations.

Analyzing A/B Test Results for an e-commerce website

PYTHON (NUMPY, PANDAS, STATSMODELS, MATPLOTLIB)

- Analyzing the results of an A/B test for an e-commerce website. The goal is to help the company understand if they should implement the new page, keep the old page, or perhaps run the experiment longer to make their decision.

Investigating 10,000 movies collected from The Movie Database (TMDb)

PYTHON (NUMPY, PANDAS, MATPLOTLIB, SEABORN)

- Performing Exploratory data analysis of the data from The Movie Database (TMDb) to answer some chosen questions about movies and genres

Exploring Weather Trends In Cairo

R (DPLYR, GGLOT2, TIDYR, READR, ZOO)

- Analyzing local and global temperature data and comparing the temperature trends in Cairo to overall global temperature trends.

Training

Cluster Analysis in R

DATA CAMP

July 2021

Modeling with Data in the Tidyverse

DATA CAMP

June 2021

Introduction to Machine Learning

DUKE UNIVERSITY VIA COURSERA

May 2021

ARIMA Models in R

DATA CAMP

April 2021

Visualizing Time Series Data in R

DATA CAMP

April 2021

Data Analysis Track

MILLION ARAB CODERS

May 2020

SQL Fundamentals course

SOLOLEARN

March 2020

Project Management Professional (PMP) Course

AMERICAN CHAMBER IN EGYPT

August 2017

Upgrading Research in Biostatistics and Toxicological Studies

NATIONAL RESEARCH CENTRE

July 2015

Languages

English

FULL PROFESSIONAL PROFICIENCY

Arabic

NATIVE PROFICIENCY

Interests

APPLICATIONS OF ARTIFICIAL INTELLIGENCE

ORGANIZING BOOK CLUBS

BOARD GAMES