

Mohammed Hamdy

DATA ANALYST

Cairo, Egypt

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Detail-oriented Data Analyst with 5+ years of experience in Scientific Research and strong technical skills of data processing, and data visualization.

Experience

Research Lab Manager

NATURAL WELLNESS GROUP

Nasr City

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

NATURAL WELLNESS GROUP

Nasr City

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

NATURAL WELLNESS GROUP

Nasr City

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

EGYPTIAN MATCH COMPANY

10th of Ramadan City

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

JOHNS HOPKINS BLOOMBERG SCHOOL OF PUBLIC HEALTH

Online

2020 - 2021

Data Analyst Nanodegree

UDACITY

Online

2020 - 2020

Bachelor of Science

AIN SHAMS UNIVERSITY

Cairo

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; quering 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

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

SOLO LEARN

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