

# Michael Farid Fouad

## Junior Data Scientist

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🏠 HackerRank in LinkedIn 🐙 Github

### 🎓 EDUCATION

#### Bachelor of Computer Science and Information Science

Ain Shams University 🔗

2019 – 2023

Cairo, Egypt

- **GPA : 3.2**
- **Graduation Project : A (Excellent)**

### 🔗 EXPERIENCE

#### Machine Learning Internship at Code Alpha

07-2023 – 10-2023

Contributed to cutting-edge ML projects, gaining hands-on experience in data analysis, model development, and optimizing algorithms for real-world applications.

#### Problem Solver | ACM ACSIS

- Solving High Level Challenges in C++, Java, and Python Programming Languages & Solving Problems in the Field of Pointers, Stacks, Data Structures, and Algorithms

### 📄 CERTIFICATES

#### Machine Learning certificate (HCIA-AI) Huawei 🔗

Innovative AI tech, full-stack strategy, and ML & DL algorithms

#### Google Data Analytics Professional Certificate 🔗

Data Manipulation and Cleaning using R, Spreadsheets, Tableau, SQL,

#### Python for Machine Learning 🔗

Python Fundamentals - Numpy - Pandas

#### Data Analysis With Python 🔗

Demographic Data Analyzer - Medical Data Visualizer - Page - View Time Series Visualizer - Sea Level Predictor

#### SQL for Data Analysis (udacity)

covering querying & subqueries, joining tables, aggregating data, cleaning data, and advanced topics like window functions, advanced joins, and performance tuning.

#### HackerRank SQL (Advanced) Certificate 🔗

Proficient in complex database query optimization and data manipulation, demonstrating mastery in SQL.

#### SQL Golden Badge Hackerrank 🔗

## PROJECTS

### **TureTrace (Graduation Project : A)**

JavaScript - React.js - Bootstrap - MetaMask - Truffle Framework - Web3.js - Node.js - Solidity  
Product identification system that utilises Blockchain technology to Design a system that prevents the purchase of counterfeit products, secures product details via a QR code, and helps companies identify the faked products.

### **Social Networks Analysis Tool ( GUI )**

Python - Tkinter (GUI library) - networkx

This tool provides community detection using the Louvain algorithm and evaluation metrics such as Conductance, modularity, NMI, and community coverage. Also offers link analysis techniques as PageRank and filtering nodes based on degree, closeness, betweenness, harmonic centralities.

### **Gender Classification**

Jupyter Notebook - Python - matplotlib - keras - sklearn - CNN Model

preprocess data, implement deep learning models for gender classification of images, and optimize neural network layers to avoid overfitting or underfitting.

### **Flight Gradient Descent Model**

Regression algorithm - Gradient Descent - Pandas - numpy - sklearn - matplotlib

This is a machine learning model written in Python that predicts the gradient descent of one variable according to another.

### **COVID-19-Shiny-Dashboard**

R Programming Language - shiny - dplyr - ggplot2 - magrittr

Provides a visual summary of COVID-19 data, including global statistics, top & lowest countries in Cases & Deaths, Users can interact to explore and analyze COVID-19 statistics.

### **Stock Price Prediction**

Data PreProcessing - Stock Analysis (EDA) - Model Selection and Training

Utilizes historical stock market data, volatility indices, and fundamental indicators to forecast future stock prices, offering valuable experience in working with large datasets and prediction modeling.

## SKILLS

R

Python

MATLAB

MySQL

Oracle Database

Machine Learning

Deep Learning

Linear Algebra

SQLite

SQL Data Analysis

Power BI

Tableau

Data Manipulation

Data Visualization

Problem Solving

Java

Algorithms

Design Pattern

Data Structure

JavaScript

C

C++

C#

Firebase

Docker

Web3

Mircrosoft Excel

Data Mining