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Professional Summary

Passionate Data Scientist with expertise in leveraging advanced analytics and machine learning to extract insights from complex datasets. Seeking a challenging position to contribute to data-driven decision-making and innovative problem-solving.

Education

BE in Computer Engineering IGCSE/A Level and Software Systems

University of Ain Shams, Cairo Sep 2018 - Jun 2023

GPA: 3.39 (Summa Cum Laude)

Al Bashaer International School,

Sep 2015 - Aug 2017

GPA: 3.9 (Summa Cum Laude)

IGCSE/O Level

Thamer International School, Jed-

Sep 2011 - Aug 2015

GPA: 3.8 (Summa Cum Laude)

Professional Experience

Data Scientist

Phoenix SAP Consulting, Cairo

- Conducted EDA and automated ETL.
- Developed and optimized ML pipelines.
- Deployed web apps with React and Diango.
- Performed data extraction and analysis using SQL.
- Created data visualizations.

- Aligned models with business goals.
- Ensured data quality.
- Followed agile methodology.
- Documented projects.

Software Developer Intern

Mentor Graphics, Cairo

Jun 2021 - Aug 2021

- Used Jira and Confluence.
- Fixed errors in Java development environment.
- Worked with Linux OS and virtual machines.
- Managed version control with Perforce.

Mathematics And Physics Teaching Assistant

Al Bashaer School, Cairo

Jun 2016 - Aug 2017

Oct 2023 - Present

- Conducted lab sessions for Physics course.
- Led review sessions for O/AS/A2-level students.
- Developed teaching materials with professors.
- Provided one-on-one student assistance.

Skills

- Programming: Python, R, Java, C++, SQL, JavaScript, HTML, CSS, XML, Kotlin, MATLAB, Bash, React, Flask, OOP, NoSQL
- Data Analysis: Pandas, NumPy, SciPy, MySQL, PostgreSQL, Matplotlib, Seaborn, Plotly, Scikitlearn, TensorFlow, PyTorch, XGBoost, Keras
- Bioinformatics: Bioconductor, BLAST, Galaxy
- Tools: Git, AWS, Snowflake, DBT
- Web Development: Django, Node.js, RESTful APIs
- Version Control: Git, GitHub, GitLab, Perforce

- **OS**: Windows, Linux, Unix, minix
- ML/DL: Regression, Classification, Clustering, Neural Networks, CNNs, RNNs
- Statistics: Hypothesis Testing, Regression, Time Series Analysis
- Software: Scrum, Agile, Jira, Trello, Confluence
- Communication: Written, Verbal, Presentation
- Soft Skills: Problem Solving, Critical Thinking, Team Collaboration, Adaptability, Time Management

Projects

Semantic Image Manipulation

- Technologies: Image Processing, Lama , Diffusion Model, Command-based Editing
- Developed a system for editing, removing, and adding to images using simple commands.

Predicting Machine Failure in Gas Stations

- Technologies: Time Series Analysis, Predictive Modeling
- Engineered a robust time series model to predict machine failures, enhancing maintenance efficiency.

Soccer Data Visualization

- **Technologies**: Data Visualization, mplsoccer

Created insightful visualizations of soccer data using matplotlib and mplsoccer for strategic analysis.

Genetic Mutation Classification

- Technologies: Genetic Analysis, Data Classification
- Conducted genetic data analysis to accurately classify mutations, aiding in medical research.

Tracing SARS-CoV-2's Evolution

- Technologies: Genomic Data Analysis, Bioinformatics Tools
- Applied bioinformatics tools to trace the evolution of SARS-CoV-2, contributing to epidemiological studies.

Training Experience

IoT Technologies & Artificial Intelligence

National Telecommunication Institute (NTI)

- IoT based projects (smart city, smart home, smart factory, e-health over IoT)
- IoT Architectures and protocols
- Microcontroller, C Programming

Jul 2022 - Aug 2022

- Embedded Linux, Shell, and Linux
- Design GUI interface
- Build Image processing applications
- Raspberry Pi, different Models, etc.

Data Science Inside Out

Sprints

- Data acquisition and cleaning
- Data exploration using visualization and statistics
- Supervised learning for classification and regression tasks

- Jul 2021 Sep 2021
- Unsupervised learning for clustering and dimensionality reduction
- Practical experience with big data and machine learning models

Android Development Booster

Sprints 5

Aug 2020 - Oct 2020

- Developed UI resources and layout designs, including XML RecyclerView
- Handled JSON data processing
- Implemented REST APIs using Retrofit library
- Applied architecture patterns such as MVP, MVVM, and Observer
- Utilized jetpack's architecture components, specifically Fragments
- Introduced to unit testing and Gradle fundamentals

Languages

- English (Native)

Arabic (Native)

- German (Beginner)

Achievements

- 3rd place in 10th undergraduate research competition, Abu Dhabi University
- Elected as Aviation Head of IT committee (2021-2023).
- member in the Aviation IT committee from 2020 to 2023.
- Won Pirates Egypt Competition in the Arduino Workshop 2018 to 2019
- competed in iChallenge '19 training in the electromechanical track.

Courses and Certifications

- Hacking COVID-19 Course 1: Identifying a Deadly Pathogen by Coursera
- Hacking COVID-19 Course 2: Decoding SARS-CoV-2's Secrets by Coursera
- Introduction to Genomic Technologies by Coursera
- Algorithms for DNA Sequencing by Coursera
- Command Line Tools for Genomic Data Science by Coursera
- Ethics, Technology and Engineering by Coursera
- Software Development Internship by Mentor Graphics
- IoT Technologies and Artificial Intelligence Training by NTI
- Android Development Booster by Sprints

References

Mohamed ElFadi Data Science Team lead

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