

Nada Aboubakr

Data Scientist

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SUMMARY

With a strong foundation in data science and software engineering, committed to contributing to impactful projects across various industries. My experience in machine learning and data analysis has prepared me to excel in diverse roles, driving innovation and advancing technology.

PROFESSIONAL EXPERIENCE

Freelancer Data Annotator for LLM Development – Appen, Plumeria V2 Multilingual Benchmark

Dec 2024 – Present

- Generated complex, non-straightforward questions in Arabic to assess the comprehension abilities of a Large Language Model (LLM) with a required accuracy rate of 90%.
- Ranked and localized Arabic content, contributing to the creation of robust benchmarks for LLM performance evaluation.
- Utilized the Appen Data Annotation Platform (ADAP) to complete tasks efficiently.

Digital Egypt Pioneers Initiative (DEPI) – Ministry of Communications and Information Technology, Egypt *IBM Data Scientist Track*

April 2024 – Oct 2024

[GitHub](#)

- Completed a 6-month data science program focusing on machine learning and IBM technologies, gaining expertise in Python, data visualization, and model building.
- Developed a machine learning model to predict the ten-year risk of coronary heart disease using the Framingham Heart Study dataset, achieving 89% accuracy, with a GUI for simplified user interaction.

Al-Ahli Hospital, Qatar *IT & Telecom Intern*

Aug 2023 - Sep 2023

- Created 3 data-driven dashboards that enhanced operational efficiency and strategic planning, while utilizing basic supervised learning techniques for predictive analyses on patients' ages, genders, and health records.

Technocolabs Softwares Inc., India

Apr 2023 – Jul 2023

[GitHub](#)

Machine Learning Intern

- Improved trend prediction accuracy by 86% in a mortgage-backed securities predictive modeling project and deployed machine learning models using Flask, enhancing both user interface and experience.
- Conducted comprehensive data analysis for a Mini Project on Big Mart Product Outlet Sales, identifying key sales factors with 70% accuracy. This experience showcased my initiative and strong analytical skills, as well as my ability to collaborate effectively with a diverse team from multiple countries, honing my communication skills.

My Communication Academy, Egypt *Artificial Intelligence Training*

Feb 2023 - May 2023

- Built and trained multiple neural network models using TensorFlow one of them was on a dataset with 6 million entries, optimizing performance with a mean absolute error (MAE) of 2.11.

EDUCATION AND CERTIFICATIONS

Alexandria University, Egypt

Oct 2020 - May 2024

Bachelor of Computer and Data Science, CGPA: 3.407/4.0 (Taken 17 Math-Based courses)

Data Camp, Online: Associate Data Analyst in SQL

Aug 2024 - Oct 2024

PROJECTS

Enhancing Drug Combination Safety

[GitHub](#)

- Developed a deep learning model with high accuracy (AUPR: 0.915) to forecast drug-drug interactions based on gene expression data.
- Designed 978-dimensional gene expression vectors from drug properties, enhancing interpretability and prediction reliability.
- Collaborated with a **6**-member multidisciplinary team to build a scalable system, including a user-friendly interface and cloud deployment, enabling real-time predictions for healthcare professionals.

Hotel Database Management System (DBMS)

[GitHub](#)

- Developed a comprehensive RDBMS using SQL, improving hotel data storage and retrieval efficiency.

Software Application for detecting Suicidal Posts

- Developed an NLP-based software application to detect suicidal posts from social media in Modern Standard Arabic, contributing to mental health awareness initiatives by providing a tool to identify at-risk individuals.

EXTRACURRICULAR

Web Development Volunteer, Wavemakers United

- Designed and developed websites, increasing engagement and usability.

Machine Learning Volunteer & HR Volunteer, IEEE SSCS Alex SC

- Contributed to machine learning projects, advancing the development of community tools and initiatives, including presenting an informative session on data visualization to my newcomer teammates.
- Assisted in human resources activities, organizing events and managing volunteer teams.

SKILLS

Programming Languages: Python, C++, Java, R, PHP, JavaScript

Frameworks/Tools: SQL, Power BI, Git, Flask, React, MATLAB, Oracle

Languages: Arabic (Native), English (C1 Level)