Nadine Tarek

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EDUCATION

University of Helwan, College of Computer Science , Artificial Intelligence
Bachelor of Computer Science, Artificial Intelligence August ,2025

High school

IGCSE, Manarat El Maadi International School *Cairo, Egypt*

September 2005–August 2021

SKILLS

Technical Skills: LLMs,Chatbots,NLP,Transformers, Numpy, Pandas, Python, MS Excel, SQL, CSS, HTML, PowerBi

Language: Arabic(Fluent) , English (fluent), French(fair)

RELEVANT EXPERIENCE

National Telecommunication Institute (NTI),Huawei *Cairo, Egypt*
AI Engineer,Intern August 2024- September 2024

- Gained foundational knowledge in AI and machine learning, including Linear Regression and Classification techniques.
- Completed a final project focused on traffic sign detection using YOLO and a dataset from Roboflow.
- Studied Generative Adversarial Networks (GANs) for advanced AI applications.
- Acquired strong data manipulation and analysis skills with NumPy and Pandas during a Huawei-sponsored NTI program.

ElectroPI *Cairo, Egypt*
AI Engineer,Intern August 2024- October 2024

- Worked on the development and integration of chatbots and real-time voice bots to enhance customer interaction using advanced LLMs.
- Built and optimized a general invoice system to streamline billing processes.
- Collaborated on projects utilizing Gemini, RAG chain, Whisper, and TTS for various AI-driven applications.
- Contributed to multiple AI-based projects, leveraging technologies such as NLP, speech recognition, and text-to-speech for real-time solutions.

CSTeam *Cairo, Egypt*
Quality Assurance ,Teaching Assistant November 2022 – September 2023

•At first, I served as an assistant, responsible for reviewing and correcting students' assignments and exams.

•Subsequently, I got promoted to the Quality Assurance team, where my primary responsibility was to enhance the accuracy and quality of the assistants' corrections. In this role, I led a team of five assistants, facilitating improved communication of their messages to the students.

•My second responsibility was overseeing the performance of a group of 51 students. Additionally, I conducted focused discussions with individuals who required further clarification on topics like 2D arrays, ensuring they gained a deeper understanding and practiced more effectively.

PROJECT EXPERIENCE

Data Cleaning and Structuring for FIFA Player Dataset December 2023 – December 2023

- Focused on preprocessing FIFA player data from the FIFA 21 video game,
- Used Python libraries such as pandas and numpy to clean and structure the dataset for analysis.
- Tasks included removing leading and trailing whitespaces, extracting contract start and end dates, categorizing player contracts, and standardizing player attributes like height and weight. Additionally, special characters in skill rating columns were removed for consistency

Analysis of Student Performance Using Machine Learning January 2024 – January 2024

- Analysis of student performance data from the "StudentsPerformance.csv" dataset using machine learning techniques.
- Data preprocessing with pandas, exploratory data analysis with matplotlib and seaborn, and feature engineering to create new variables like 'average_score'.
- Using machine learning models including Random Forest Regressor and K-Nearest Neighbors Regressor, I built predictive models to forecast student scores, achieving satisfactory performance metrics.
- The project's outcomes provide insights into factors affecting student performance, with implications for educational interventions to improve outcomes and reduce achievement gaps.
- Technologies used include Python, Scikit-learn, and data cleaning, exploratory analysis, and machine learning modeling techniques

HR Analytics and Insights Using SQL Queries February 2024 – February 2024

- Employed SQL queries to analyze HR data stored in the 'HumanResources' dataset, aiming to uncover insights into workforce dynamics.
- Through query design and optimization, the project delved into employee demographics, turnover rates, tenure distribution, and changes in employee count over time.
- Power BI was employed for visualization, enhancing data interpretation

Data Analysis and Visualization Project: Bike Buyers Dataset February 2024 – February 2024

- Conducted comprehensive data analysis and visualization on a bike buyers dataset, focusing on understanding consumer behavior and market trends. Through data cleaning and removal of duplicates, I ensured data integrity before proceeding to exploratory data analysis (EDA) to uncover underlying patterns.
- Pivot tables were utilized to summarize and aggregate data, providing insights into customer demographics and purchasing patterns. I also created interactive dashboards to visualize key metrics and findings, facilitating data-driven decision making.

Courses

Python: (DataCamp) **December 2023-January 2024**

- Model Validation
- Dimensionality Reduction
- Cluster Analysis
- Machine Learning with Tree-Based Models
- Linear Classifiers
- Feature Engineering for Machine Learning
- Preprocessing for Machine Learning
- Supervised Learning with scikit-learn