Personal Data

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Objectives

I hold a Master's degree in Biophysics from the Faculty of Science, with a background in Physics and Chemistry, advanced statistics. I also have experience in Medical Representative, Medical Laboratory Analysis, and a strong background in pharmaceutical field. Recently, I transitioned my career focus and have extensively studied and gained practical experience in Data Analysis and Machine Learning through platforms such as Coursera and LinkedIn Learning. Additionally, I am proficient in using Tableau, Microsoft Power BI, and SQL for data visualization and analysis. I am actively participating in the "Digital Egypt Pioneers" initiative "Data Analytics - Microsoft Power BI Engineer", and I am a candidate for an MBA in Artificial Intelligence. I am now seeking opportunities to further enhance my skills and secure a position in this field

Experience

- **Participating in the "Digital Egypt Pioneers" initiative (Data Analytics - Microsoft Power BI Engineer) from Oct 2024 to Present**
- **Managed my own online clothing sales group via Facebook from 2020-2023**

  - Developing effective sales strategies, promoting products, and driving online sales Providing excellent customer service, handling inquiries, and resolving issues to ensure customer satisfaction.
  - Utilizing social media platforms for marketing and increasing brand visibility.
  - Managing stock levels, updating inventory, and ensuring product availability.
  - Interacting with customers and suppliers, effectively conveying information, and building strong relationships.
  - Negotiating prices with suppliers and customers to achieve the best deals.
  - Balancing various tasks and responsibilities efficiently to meet business goals.
  - Identifying and resolving any issues that arise in the business operations.
  - Adjusting strategies and operations to meet changing market demands and customer preferences.

- **Lab. Specialist in Blood Gases Lab from 2014 to 2020, Assiut University Children Hospital as lab.**

  - performs laboratory tests on patients in all areas of the hospital. The tests conducted, samples obtained, and test results will be handled consistently with laboratory policies and procedures.
  - Treatment optimization and prescription monitoring
  - Safety of the prescribed medications.
  - Therapeutic drug monitoring.
  - Advising in adherence/compliance issues.
  - Assessing patient response to therapy
  - Monitoring of in-patient and discharge prescriptions for clinical accuracy and cost-effective prescribing
  - Assessing the patient's response to therapy both subjectively and objectively.

- **Lab. Specialist in Clinical Pharmacy Lab from 2011 to 2013, Assiut University Children Hospital.**

  - Medication reconciliation for newly admitted patients
  - Checking of the patient’s own medication and assess its suitability for use

- **Medical Rep, Falcon Group from 12/2015 to 2017**

  - Medical Rep, Macro International Company 2010 to 2012
  - Selling the company's medications to doctors, and other relevant health-care professionals.
  - Scheduling appointments with doctors, , and other health-care professionals to promote company medications.
  - Developing an in-depth understanding of company medications.
  - Building and maintaining good business relationships with customers to encourage repeat purchases.
  - Following up on leads generated by the company.
  - Preparing presentations for potential customers.
  - Researching competitor’s medications and their respective market performances.
  - Keeping abreast of new developments in the medical field to determine the effect of such developments on the company's business strategies.

Projects

Data Analysis Projects:

1-Title: Hospital Outpatient Data Analysis

Project Goal: Analyzed hospital outpatient data to improve the quality of healthcare delivery and enhance operational efficiency.
Tools and Technologies: Python, Excel
Tasks and Responsibilities:
Data Cleaning & Integration: Extracted, cleaned, and integrated data from multiple sources to ensure accuracy and consistency.
Exploratory Data Analysis (EDA): Conducted in-depth EDA to identify trends and patterns in patient demographics, insurance status, diagnoses, associated costs, and waiting times.
Visualization: Developed comprehensive dashboards and visual reports to present findings. Notable insights included:
Most Affected Age in Each Diagnosis: Bar chart highlighting the number of patients affected by various diagnoses across different age groups.
Waiting Time in Each Department by Diagnosis: Horizontal bar chart displaying waiting times in minutes for different diagnoses across various departments.
Predictive Modeling: Constructed and validated predictive models to forecast patient visits and resource requirements.

Results: The project led to a 15% improvement in patient flow management and a 10% reduction in operational costs.
Actionable Recommendations: Provided strategic recommendations to enhance patient care, improve patient flow management, and reduce costs.

2- Project Title: Analysis of Car Types and Their Relation to Popularity

Project Goal: The main objective of this project was to analyze the popularity of different car models and understand the factors influencing their popularity.
Tools and Technologies: Python and Excel for cleaning, Analysis and data visualization.

Tasks and Responsibilities:

- Data Collection and Cleaning: Gathered and cleaned data on various car models, including their make, type, number of doors, vehicle size, transmission type, and horsepower.
- **Exploratory Data Analysis (EDA):** Conducted in-depth EDA to identify trends and patterns in car popularity.
- **Visualization**: Created visualizations to represent the data, including bar charts and graphs to illustrate:
    - The popularity of each car model
    - The relationship between the number of doors and popularity
    - Vehicle size and transmission type sorted by horsepower
- **Insights and Recommendations**: Derived key insights from the analysis and provided actionable recommendations to improve market strategies.

Results:

- Identified that the Ford F-150 is the most popular car model, followed by the F-250 and Expedition.
- Found that cars with four doors tend to have higher popularity.
- Determined that large vehicles with automatic transmission have higher horsepower, with the highest being 91,164 HP for a specific model.

Charts: Created comprehensive bar charts and graphs to support findings and used them to inform management decisions.

Machine Learning Projects :

Please check out my projects using this link:
https://drive.google.com/drive/folders/1EtJecKj_alSf16pwpvgzX7MAQC57OjQe?usp=drive_link

Qualifications

- Master degree of Biophysics, “Effects of Mobile Radiation On The Memory Of Different Ages Male Rats, Faculty of Science. 2019. “Grade: Good.
- Diploma in Environmental Engineer, Faculty of Engineering, Grade: Good (2013 - 2015).
- B. SC. of Science, Physics & Chemistry Department, Assiut University, June 2010, Grade: Good.

Certificate

- Candidate for an MBA in Artificial Intelligence.
- Google Advanced Data Analytics Professional Certificate by Coursera.
- Google Data Analytics Professional Certificate by Coursera.
- Python Data Analysis for Health-care.

- Diploma in Human Anatomy and Physiology in Alison.
- Clinical Terminology for International and U.S. Students from University of Pittsburgh by Coursera.
- The Data Science of Health Informatics from Johns Hopkins University by Coursera.
- Health Informatics for Healthcare Professionals from Northeastern University by Coursera.
- Machine Learning Fundamentals for Health-care.
- Machine Learning Foundations: Linear Algebra.
- Machine Learning Foundations: Statistics, National Association of State Boards of Accountancy (NASBA)
  Continuing Professional Education Credit (CPE) by LinkedIn.

- Career Essentials in Generative AI by Microsoft and LinkedIn.
- Ethics in the Age of Generative AI Ethics in the Age of Generative AI from Project Management Institute by LinkedIn.

Technical Skills

- Python.
- The Power of Statistics.
- Regression Analysis: Simplify Complex Data Relationships.
- Foundations of Data Science.
- Translate Data into Insights.
- Data analysis with R programming.
- Working with platforms including spreadsheets, SQL, Tableau.
- know how to prepare, clean, process, analyze, and share data with visualization for story telling and thoughtful action.

Courses

- Training in Petrol Co.
- IBM Data Fundamentals
- Pharmaceutical Quality Management System.
- RTC branch SSDP (Student skills development program).
- Introduction of Medical Coding and Billing.
- Introduction to Common Medical Conditions.
- IELTS Preparation.
- ICDL
- Intro. “Selling & Marketing Skills”.
- Digital Marketing by Google

Volunteering Activities

- **Scout Services 2005-2007**

  - Successfully organized and coordinated scout days, camps, and special ceremonies.
  - Worked closely with other scouts and leaders to plan and execute events.
  - Adapted to new tools and methods for planning and organizing events.
  - Effectively handled any conflicts or negative attitudes that arose during events.

- **Cancer Services with Egypt Without Disease Foundation since 2014 to present**

  - Provided support and care for individuals facing cancer.
  - Worked with health-care providers and volunteers to coordinate services and support for cancer patients.
  - Researched and provided information on unfunded medications and lab tests, ensuring patients received the necessary medical support.
  - Interacted with patients from various backgrounds.
  - Effectively managed difficult situations and negative attitudes from patients or their families, fostering a supportive and caring environment.
  - Exhibited attention to detail in managing patient care, medication procurement, and lab test coordination, ensuring thorough and high-quality support.

Published Paper

EFFECTS OF MOBILE RADIATION ON THE MEMORY OF DIFFERENT AGES MALE RATS
Sofia Safwat,G Hassan,Marwa Ahmed, M Makky, Volume 48, Issue 2,2019
https://aunj.journals.ekb.eg/