# Fawzy Almatary

## Data Analyst

### *Healthcare • Machine Learning • Statistical Analysis*

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## Skills

- **Machine Learning:** Linear Regression, K-Nearest Neighbors, Support Vector Machines, Decision Tree, K-Means
- **Statistical Analysis:** Descriptive Statistics, Hypothesis Testing, Probability, Sampling Distribution
- **Python:** Pandas, NumPy, Matplotlib, Seaborn, SciPy, Statsmodels, Scikit-learn, BeautifulSoup
- **SQL:** Joins, Subqueries, Common Table Expression (CTE), Recursive CTE, Window Functions
- **SAS:** Base SAS, SAS/STAT, SAS/GRAPH, SAS/Macros, SAS/ODS, SAS/SQL
- **MS Excel:** Cleaning Data, Conditional Formatting, Pivot Tables, Lookup Functions, Macros
- **Interactive Visualizations:** MS Power BI, Tableau, JMP

## Projects

- **2021 BRFSS Data Analysis Project:** Using BRFSS data for 2021, I used Python to prepare and clean the data, then did exploratory data analysis, and lastly conducted hypotheses testing and regression analysis.
- **Chinook Database Analysis Project:** I used SQL queries in Jupyter notebook to extract the data I need to answer specific questions, then used Python to visualize the results of the SQL queries.
- **Space Missions Analysis Project:** Using Python, I analyzed a dataset containing all space mission from 1957 to August 2022. Then used Power BI to create a dashboard to showcase my analysis.
- **Travel-Insurance-Analysis Project:** I used Python to analyze Travel Assured database of their customers and people who got quotes but never bought insurance to figure out the best way for Travel Assured to direct their advertisement.

## Certifications

- **Data Analyst Professional**, DataCamp,  September 2022
- **Statistics with Python Specialization**, University of Michigan,  September 2022
- **IELTS General Training: Band 8 - Advanced (C1 level)**, IELTS Official,  September 2021

## Experience

- **Clinical Oncology Pharmacist at 6th of October Hospital**
  (July 2018 – Present)
  - Developed a computerized documentation system to collect, analyze, and assess information and provide automated charts for the monthly report given to the hospital management from the department.
  - Conducted annual analysis of the documentation data of the department which provided useful insights regarding medication errors, hypersensitivity reactions, and overall survival rate. These insights had significant impacts in the quality and cost of the treatment given to patients.
  - Designed a summary chart for IV admixing unit containing all the medications used, which minimized time consumed for and medication errors of preparing chemotherapy medications.

## Education

- **PharmD** (Doctor of Pharmacy degree), **Mansoura University**,  Graduation: 2018
- **Bachelor** of Pharmacy & Pharmaceutical Industries, **Sinai University**,  Graduation: 2015