Data Analyst

SQL \ Power BI \ R \ Python

**Elad Oz Cohen**

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**Summary**

* **1 year of experience** as an IDF **Data Analyst using SQL, R, Excel, and PowerBI.**
* Experience with **SQL, PowerBI, R, Python, Tableau, and MATLAB.**
* Undertook **7 big data analysis projects**, demonstrating proficiency using **SQL,** **Python,** **R**, and **BI tools**; all projects can be found on my website and Github.
* Demonstrated analytical skills, able to collect, organize, and analyze **big data** with **attention to detail.**
* **M.A. In Cognitive Neuroscience with Data Science Emphasis**, Ben-Gurion University, **GPA 91**

**Experience**

2020 - 2021 **Data Analyst,** Israel Defense Forces

* Aggregated **unstructured data** from **external sources** to analyze the behavioral patterns of 5,000+ army personnel using **statistical tools** such as **hypothesis testing** and **modeling** using **SQL**, **Excel,** and **R**.
* Automated repetitive pre-processing tasks using **R** programming language, increasing operational efficiency by 50%.
* Communicated and visually presented significant insights from project to an audience of 100+ senior officers at military conferences, utilizing **PowerBI.**

2019 - 2022 **Research Assistant / Teaching Assistant**, Ben-Gurion University

* Conducted and analyzed 15+ data-rich experiments, including **A/B testing**, with over 5M data points using **R**, **Python**, **MATLAB**, and **Excel**.
* Frequently provided data visuals and post-experiment strategies, aiding project development.
* Increased experimental productivity by **30%** through **data-driven insights**.
* Collaborated on data sharing within a research team, contributing to a published study.
* Provided weekly tutorials on inferential statistics and multivariate regression analysis to students.

**Education**

2019 - 2022 **M.A. in Cognitive Psychology with Data Science Emphasis**, Ben-Gurion University, **GPA 91**.

* **Thesis** - Conscious perception, the active role of the perceiver - using **Python, R,** and **Excel.**

2016 - 2019 **B.A. in Psychology,** Achva Academic College, GPA 93

* Graduated with honors; Dean’s list, 2018-2019.

**Courses**

2023 **Introduction to Computer Science and OOP using Java,** The Open University

2022 **Advanced SQL certification**, Naya College

**Projects**

2023 **COVID-19 EDA Project - SQL, Tableau**

* Implemented **SQL** to filter and analyze 300.000+ data points from two large COVID-19 datasets using **CTE,** **DML**, **JOINS**, and **UNIONS,** and visualizing key insights using **Tableau.**

2023 **SQL Marketing Campaign Analysis** -

* Used SQL to analyze and extract valuable insights from the results of a large bank marketing campaign analysis.

2023 **Nashville Housing Dataset Pre-Processing**

* Implemented advanced **SQL** commands such as **window functions, DML, and DDL** to properly clean and prepare the data set for further analysis.

2023 **Customer Analysis Dashboard - Tableau**

* Used **Tableau** to build a dashboard visualizing the marketing behavior of customers and calculated key performance indicators (**KPIs).**

2023 **Web Scraping Project - Python**

* Utilized ‘**BeautifulSoup**’ and ‘**requests**’packages to track the pricing changes of an online item at regular intervals and stored the gathered data in a CSV file for future analysis.

2023 **Israel Bus Stops Mapping Project - R programming**

* Deployed **R-Studio data manipulation** and **visualization packages** to analyze 33,000+ geographical data points. Gained insights into Israel's geographical bus station distribution.

2023 **Web-Application Programming Project - R programming**

* Created an interactive web application using **R-Studio** that allows users to explore the behavior of central tendency measurements.

**Skills**

Software - **SQL**, **Tableau**, **PowerBI**, **Excel**, **R**, **Python,** **MATLAB, Java.**

**Military Service**

2011 - 2014 **Combative medic - Givati Brigade.**

**Languages**

**Hebrew** - native | **English** - fluent