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,** and **Excel.**
- Experience with **BI tools** such as **Tableau** and **PowerBI**.
- Advanced knowledge in **statistical tools** and models - **R, Python, Excel**.
- Undertook **8 big data analysis projects**, demonstrating proficiency using **SQL, Python,** and **R** programming languages.
- Intensive **SQL course**, acquiring proficiency in **advanced querying** techniques via extensive **hands-on** practice.
- Strong analytical skills, able to collect, organize, and **analyze large datasets** with **attention to details; fast learner** with proven **research** skills, including **A/B testing**.
- **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 **valuable insights** to 100+ senior officers in conferences.

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

- Conducted 15+ intricate experiments, including **A/B testing**, with multiple control and manipulation groups, and managed, analyzed, and visualized 5M + data points from 600+ subjects using **R, Python, and Excel.**
- Fast learned and applied advanced **statistical modeling techniques** to meet project requirements.
- Transformed **big data** analysis insights to experimental procedures, increasing productivity by 30%.
- **Collaborated** with a **large research team** to share data and supported research efforts, resulting in a publication.
- Delivered weekly tutorials on the theory and application of wide **statistical topics**.
- **Inferential Statistics**: hypothesis testing using methods such as **t-tests**, ANOVA, and correlation analysis.

- Multivariate Regression: **linear regression analysis**, fitting and visualizing linear models in **R** programming language.

Education

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

- Presented results of projects in conferences and meetings.
- Mentored and directed students on the proper conduction of research.
- **Thesis** - Conscious perception, the active role of the perceiver - used **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 using Java,** The Open University

- Obtained a solid understanding of fundamental concepts of computer science and Java programming.

2022   **Advanced SQL certification**, Naya College

- Obtained comprehensive and practical experience in both the core and advanced concepts of **SQL**.
- Acquired proficiency in, among other topics, **DML**, Advanced quiring techniques, **window functions**, **ETL processes,** and **T-SQL** programming.

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**.
- Deployed **Tableau** to communicate key insights on the relationship between infections, vaccinations, and mortality rates.
- https://eladozcohen.com/project/covid_portfolio/

2023   **Costumer Analysis Dashboard - Tableau**

- Used **Tableau** to build a dashboard visualizing the marketing behavior of customers and calculated key performance indicators (**KPIs).**
- https://public.tableau.com/app/profile/elad.oz.cohen/viz/SalesDashboardunderconstruction/Dashboard1/

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.
- https://eladozcohen.com/project/amazon_scrapping/

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

- Deployed **R-Studio data manipulation** and **visualization packages** to analyze 33,000+ geographical data points and gained insights regarding the scattering of bus stations throughout Israel
- https://github.com/EladOzCohen/Israel-Buses-Stops-Visualisation/blob/main/README.md

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

- Created an interactive web application using **R-Studio** that allows users to explore the behavior of central tendencies measurements.
- https://eladozcohen.com/project/mean-and-median-manipulation/

Skills

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

Military Service

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

Languages

Hebrew - native | **English** - fluent