Data Analyst / Business & Product Analyst

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**Summary**

* **3 years** of practical experience in **data analysis, statistical modeling,** and **machine learning** using **Python, R, SQL,** and **big data** tools.
* **B.Sc. in Statistics, Data Science & Business Management**, The Hebrew University
* Skilled in extracting and analyzing **complex data**, experienced in building **advanced visualizations**
* Experienced in **Tableau, Excel**, and **SQL,** and environments like **Apache Spark** and **Colab**.
* Proficient in **statistical learning** and applying **supervised** and **unsupervised ML models**, including **SVM, neural networks,** **random forest**, and **k-means.**
* Strong command of **data structures, algorithms,** and simulations for modeling stochastic processes and using Tabular data modeling such as **F-tests & ANOVA**.

**Education & Courses**

2020 - 2024 **Dual B.Sc./ B.A. in Statistics, Data Science, & Business Management**, The Hebrew University

2015 - 2019  **Studies** **in Physics and Economics**, The Hebrew University of Jerusalem

2023 - 2024 **Tableau Certified Data Analyst**, Udemy

2023 - 2024 **SQL Bootcamp(PostgreSQL and pgAdmin)**, Udemy

**Experience**

2020 - 2024 **Practical Academic Experience**, The Hebrew University

* Conducted **data extraction** and **analysis** using **SQL, Python,** and **R** to support decision-making processes across various projects.
* Built **advanced Excel models** (including PivotTables, VLOOKUP, XMATCH, and What-If Analysis) to forecast trends and evaluate financial scenarios such as interest rate impacts on amortization schedules.
* Designed and presented **data visualizations** using Excel and R, including heatmaps and world maps, to effectively communicate **complex datasets.**
* **Implemented simulations** in R to analyze stochastic processes, including elevator usage patterns and traffic load distributions.
* Worked in **big data environments** (**BigQuery, Apache Spark, Colab**) to read and process large datasets using Python and **Unix** commands, followed by generating meaningful insights through automated reports and graphs.
* **Applied statistical** and **machine learning techniques** such as F-tests, ANOVA, logistic and **linear regression**, **SVM**, **neural networks**, and **clustering models** (K-means, CPA) to identify patterns and predict performance outcomes.
* Developed and optimized **custom algorithms** and **applied data structures** to ensure efficient data processing and accurate analysis.

**Tools and Technologies**

Proficient with MS Office, including **Excel;** Statistical analysis: **R**

Programming languages & Databases: **Python, C++**, **SQL,** and **Visual Basic**

Additional functions: **Count, Counta, Vlookup, Index, Match**

Financial formulas: IRR, XIRR, NPV, XNPV, PV, PMT, PPMT, IPMT

**Languages & Military Service**

**Hebrew** - Native | **English** - Full proficiency

Combat medic and squad commander, Magal Corps