

ARIEL ASPER

DATA SCIENTIST

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Results-driven Data Scientist with extensive experience in statistical analysis, machine learning, and data engineering. Skilled in automating workflows, optimizing data pipelines, and delivering actionable insights. Proven track record in data analysis and collaborating with cross-functional teams.

EXPERIENCE

Data Scientist | Graticule, Inc. 2024 – 2025

- Led evaluation and selection of NLP tools, optimizing patient privacy workflows using Python, AWS S3, Docker, and DuckDB, reducing manual effort by 60%, and increasing revenue through new customer acquisition.
- Designed and implemented an ETL pipeline to automate raw data extraction and preprocessing, improving data consistency by 50%, and providing scalability for future projects.
- Developed data pipelines and analyzed records of 3M+ patients using Snowflake, AWS Sagemaker, AWS S3, Python, R, and advanced statistical models, delivering insights on high-risk patient populations and drug effectiveness, supporting FDA regulatory approval.

Data Scientist | KSM Research and Innovation 2023 – 2024

- Led analysis of 2M+ patients to assess healthcare resource utilization in clinical cohorts, driving new drug development and improving patient outcomes, reducing healthcare system burden, and offering cost-saving opportunities for insurers.
- Created and tested federated learning algorithms to perform statistical models (e.g., Chi-square, Linear regression, Logistic regression, Kaplan-Meier Survival analysis) on multi-source healthcare data, ensuring privacy compliance and enhancing research findings' scalability, accuracy, and representativeness.

Data analyst | Sheba Medical Center 2021 – 2023

- Analyzed 4M+ individuals using statistical models such as Cox and Logistic regressions, to assess medication-related outcomes, strengthening client trust and influencing pharma decisions on new drug development to improve patient well-being.
- Conducted cohort-based income analysis using statistical models such as Poisson regression Social Security data, informing policy decisions and optimizing financial support for underserved clinical groups.

SKILLS

Python, R, MySQL, PostgreSQL, Snowflake, Git/Github, Linux/MacOS, AWS SageMaker, Docker, NLP, ML, Huggingface, sklearn, Statistical modeling, EDA, Streamlit, Data mining, Regex, Web scraping

EDUCATION

- **Data Science and Machine Learning Certificate | Bar-Ilan University** 2022 – 2023
- **M.A., Rehabilitation Psychology | Ariel University** 2019 – 2021
- **B.A., Behavioral Sciences | Ariel University** 2016 – 2019