

SAAR SHARIR

Data Analyst | Data Specialist | AgriTech & Environmental

Contact

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- Tel Aviv, Israel
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SKILLS

Data Engineering:

SQL Server, PostgreSQL, ETL Pipelines, Data Modeling, Query Optimization, familiar with Hadoop, Hive, Impala.

Business Intelligence:

Power BI (DAX, Data Modeling), Dashboard Development, KPI Design.

Programming & Analysis:

Python (Pandas, NumPy, scikit-learn etc.)

Statistics & Machine Learning:

EDA, Predictive Modeling, Regression, Classification, Statistical Analysis.

Domain Expertise:

Agricultural Systems, Forestry Data, Field Trials, Environmental Data Analysis

EDUCATION

DATA ANALYSIS & RESEARCH

Naya College
2023-2024

BSC PLANT SCIENCES IN AGRICULTURE

The Hebrew University
2016-2020

GRADUATED WITH HONORS, MAJOR IN TECHNOLOGY

Beit Yerach High School
2006-2010

LANGUAGE

HEBREW: NATIVE
ENGLISH: NATIVE-LEVEL PROFICIENCY
ARABIC: BASIC

MILITARY

2011-2014
Sniper Squad Commander
50th Battalion - Nahal Brigade

- Completed full military service and awarded Nahal Brigade's Outstanding Soldier in 2013.

PROFILE

Data Analyst & BI Developer specializing in agricultural and environmental systems, with strong expertise in SQL, Power BI, and statistical modeling.

Experienced in building analytical infrastructures, predictive models, and decision-support systems based on large-scale operational data (forestry, nursery production, field trials).

Focused on transforming complex datasets into actionable insights for operational optimization, resource planning, and strategic decision-making.

WORK EXPERIENCE

DATA SPECIALIST, FORESTRY DEPARTMENT

2023- Present

Jewish National Foundation (kkl- JNF)

- Led statistical analysis and data modeling on forestry datasets (100K+ records), delivering insights that supported strategic planning and resource allocation.
- Developed Power BI dashboards used across multiple departments, reducing reporting time by ~40% and improving data accessibility.
- Designed and optimized SQL-based data pipelines and analytical views (CTEs, aggregations), improving query performance and data reliability.
- Integrated multiple data sources (field data, GIS, operational systems) into unified analytical models to support research and decision-making.
- Led cross-functional collaboration between agronomy, data, and software teams to define system requirements and deliver data-driven solutions.

AGRONOMIC CONSULTANT AND PROJECT MANAGER

2022- 2023

Independent Consultant

Provided strategic consulting in agronomy and project management for natural and urban environments. Led the development of client requirements, created detailed software specifications, and managed multidisciplinary teams to deliver impactful solutions.

- Key Clients:
- Tel Aviv Municipality: Served as an Agronomic Consultant and Project Manager, advising on agronomy practices and overseeing project execution.
- Beyond: Led the consulting and implementation of a project management system tailored for the agricultural industry.

HEAD OF PRE-BREEDING FOR ORNAMENTAL PLANTS

2019-2022

Danziger

- Project and Product Management: Directed and executed specialized projects in collaboration with multiple departments to drive product development.
- Data Analysis and Protocol Development: Developed and refined growth protocols, and conducted comprehensive field trials to optimize breeding processes.
- Breeder and Agronomist: Employed advanced breeding technologies (e.g., image analysis, Macros, ImageJ) to enhance breeding strategies; managed genetic databases and plant populations.

RESEARCH ASSISTANT IN MOLECULAR GENETICS LAB

2017-2019

Weizmann Institute of Science - Prof. Rotem Sorek's Lab

- Managed laboratory inventory and performed DNA extractions, genomic editing, DNA library preparation, primer design, PCR, and electrophoresis.
- Conducted experiments and represented the lab in supplier negotiations and purchase assessments.

Projects, Publication & Acknowledge

- Contributed as co-author to the publication “Inflammatory bowel disease microbiome: Functional pathways and microbial drivers” (Cell Host & Microbe, 2023), a large-scale collaborative study exploring microbial drivers of IBD.
- Cohen D, Melamed S, Millman A, Shulman G, Oppenheimer-Shaanan Y, Kacen A, Doron S, Amitai G, Sorek R. Cyclic GMP-AMP signaling protects bacteria against viral infection. Nature, 574(7780):691-695 (2019).
- Nursery Survival Analysis System - Built SQL-based analytical framework to evaluate planting cycle performance. Implemented statistical methods (Wilson CI) to identify optimal planting weeks and improve survival rates.
- Tree Volume Prediction Model - Developed machine learning models to estimate tree volume using DBH, height, and species features. Performed EDA and feature engineering on forestry datasets. Improved prediction accuracy and data completeness.
- Sentiment Analysis (NLP) - Analyzed 20K+ hotel reviews using VADER, TextBlob, and transformer models (RoBERTa, DistilBERT). Evaluated model performance using Spearman correlation and classification metrics.