# Yarden Viktor Dejorno

Data Scientist | Statistical Modeling & Forecasting
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## Summary

Quantitative Researcher (M.Med.Sc. in Neuroscience) with 4+ years of experience bridging lab experimentation and computational analysis. Skilled in signal processing, statistical modeling, and probabilistic forecasting. Proven track record of translating complex experimental data into actionable insights, leveraging practical training in Machine Learning and Deep Learning.

## Relevant Experience

**Researcher & Lead Statistician** | Be'erot Mental Health Center — Oct 2022 - Jan 2025

- Designed experiments and translated research questions into Statistical Models.
- Co-authored a paper in *World Psychiatry* on implementing the mediation model. Publication · Analysis code

**Signal-Processing Researcher** | BrainsWay R&D Lab at Ben-Gurion University — Sep 2021 - Sep 2022

- Integrated data from multiple sources and automated retrieval and preprocessing in MATLAB.
- Developed exploratory spectral and phase-lag features. Project

## Selected Projects

**Probabilistic Electricity Price Forecasting (DE-LU)** · Report · Code

- Developed a probabilistic day-ahead forecasting ensemble combining linear models, LightGBM, and a NumPy distributional neural network, using walk-forward validation and MLflow.
- Reduced the normalized price forecast error scores by 20.6% versus a linear baseline retrained daily (LEAR).

**CodeRed | Historical Alert Analytics** · Dashboard · Code

- Built a Python/SQLite pipeline and dashboard analyzing 174K historical alert-locality records; automated daily updates and deployment with GitHub Actions.

**Machshevet | Parallel Combinatorial Search** · Code

- Implemented a Numba-parallel peg solitaire solver with bitboards and D4 symmetry reduction; mapped 23.5M canonical reachable states (1.68M winning), with automated tests and CI.

**Tovati | Multi-Signal Time-Series Engine** · Website

- Built a versioned, deterministic time-series engine for an offline Android cycle-tracking app, with leakage-aware walk-forward backtesting and 170 unit tests.

## Education

**Technion**, Certified Data Scientist in Machine Learning & Deep Learning — 2024 - 2025
Professional certificate · GPA: 91.5/100

**Ben-Gurion University**, M.Med.Sc. in Medical Sciences — 2022 - 2024
GPA: 95/100 · Thesis: designed a PTSD study; automated image-derived analysis in Python/ImageJ.

**Ben-Gurion University**, B.Sc. in Psychobiology — 2019 - 2021

## Additional Experience

**Laboratory Engineer** | Ben-Gurion University — Mar 2025 - Jul 2026

- Designed and tested experimental protocols to improve student practicals.
- Managed laboratory equipment, consumables, inventory and procurement for practical teaching across university courses.

**Machine Learning Tutor** | Freelance — Jan 2022 - Dec 2024

- Tutored 30 B.Sc. and M.Sc. students in neural networks and backpropagation; created code examples and learning materials.

**Data Integration & ERP Administrator** | ISG Consulting — 2020 - 2020

- Managed customer onboarding, consolidated and synchronized records from two legacy systems into Priority ERP, and built workflow automations.