Liron Soffer

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Education

Tel Aviv University, Industrial Engineering — Tel Aviv, Israel — 2025 – present
- Advisor: Dr. Chen Shani
- Research: Interpretability and concept understanding in LLMs
- Paper accepted to ICLR 2026: "From Tokens to Thoughts: How LLMs and Humans Trade Compression for Meaning"

Technion – Israel Institute of Technology, Industrial Engineering – Business Information Systems — Haifa, Israel — 2015 – 2020
- Minor: Entrepreneurship
- Special Courses: Artificial Intelligence, Machine Learning, Deep Learning

Experience

Sunbit, Innovation AI/ML Engineer (AI/ML Guild Tech Lead) — Tel Aviv, Israel — 2025 – 2025 — 1 year
Joined the newly formed Innovation Team focused on GenAI as the group's AI/ML engineer.
- Part of the team's transition into a larger task force with additional data scientists and developers.
- Co-designed and implemented an agentic LLM workflow that delivers automated, context-aware response suggestions for call-center representatives.

Sunbit, Risk Team Lead — Tel Aviv, Israel — 2022 – 2025 — 3 years
- Led a cross-functional team of backend Python engineers, data analysts, and AI/ML engineers to manage financial risk.
- Collaborated with business and senior leadership to ensure risk management strategies align with evolving business needs.
- Developed a transformer model on financial data, leveraging large-scale pretraining and fine-tuning to assess customer default probability.

Sunbit, Data Scientist | AI/ML Engineer — Tel Aviv, Israel — 2020 – 2022 — 2 years
- Developed and deployed a 2D-Autoregressive ML model to predict loan loss and cash-on-cash returns for the entire loan portfolio.
- Owned the end-to-end solution, from data ingestion and feature engineering to production deployment.
- Built an interactive Streamlit dashboard to enable business stakeholders to visualize and act on predictive insights.

Cyber Analytics, Data Scientist — Israel — 2019 – 2020 — 1 year
- Designed and implemented end-to-end ML solutions, managing the full lifecycle from data collection and modeling to feature engineering, algorithm selection, and evaluation.

Publications

From Tokens to Thoughts: How LLMs and Humans Trade Compression for Meaning
Applies an Information Bottleneck framework to examine how LLMs trade compression for semantic meaning, comparing them against human conceptual structures.
Chen Shani, Liron Soffer, Dan Jurafsky, Yann LeCun, Ravid Shwartz-Ziv
arxiv.org/abs/2505.17117

Projects

GenAI Curation Challenge (Baot × Immunai)   2025 – 2025
Collaborated in a 10-member cross-functional team to build an LLM-based agentic flow for extracting metadata from RNA-seq studies.

Speaker at PyCon Israel   2022 – 2022
Delivered a talk on "Web Apps for Data Science Using Streamlit," demonstrating how to build interactive web applications for ML and data analytics.

GANILLA Implementation   2020 – 2020
Implemented the paper "GANILLA – Generative Adversarial Networks for Image to Illustration Translation" as a personal project exploring generative models.

Skills

Programming & Tools

Machine Learning & AI

Languages

Hebrew
Native

English
Fluent