

# Liron Soffer

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## Education

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| <b>Tel Aviv University</b> , Industrial Engineering  | Tel Aviv, Israel |
| <ul style="list-style-type: none"><li>• Advisor: Dr. Chen Shani</li><li>• Research: Interpretability and concept understanding in LLMs</li><li>• Paper accepted to ICLR 2026: "From Tokens to Thoughts: How LLMs and Humans Trade Compression for Meaning"</li></ul> | 2025 – present   |
| <b>Technion – Israel Institute of Technology</b> , Industrial Engineering – Business Information Systems   | Haifa, Israel    |
| <ul style="list-style-type: none"><li>• Minor: Entrepreneurship</li><li>• Special Courses: Artificial Intelligence, Machine Learning, Deep Learning</li></ul>  | 2015 – 2020      |

## Experience

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|---|------------------------|
| <b>Sunbit</b> , Innovation AI/ML Engineer (AI/ML Guild Tech Lead)   | Tel Aviv, Israel       |
| Joined the newly formed Innovation Team focused on GenAI as the group's AI/ML lead.   | 2025 – 2025            |
| <ul style="list-style-type: none"><li>• Guided the team's transition into a larger task force with additional data scientists and developers.</li><li>• Co-designed and implemented an agentic LLM workflow that delivers automated, context-aware response suggestions for call-center representatives.</li></ul>  | 1 year                 |
| <b>Sunbit</b> , Risk Team Lead  | Tel Aviv, Israel       |
| <ul style="list-style-type: none"><li>• Led a cross-functional team of backend Python engineers, data analysts, and AI/ML engineers to manage financial risk.</li><li>• Collaborated with business and senior leadership to ensure risk management strategies align with evolving business needs.</li><li>• Developed a transformer model on financial data, leveraging large-scale pretraining and fine-tuning to assess customer default probability.</li></ul> | 2022 – 2025<br>3 years |
| <b>Sunbit</b> , Data Scientist   AI/ML Engineer   | Tel Aviv, Israel       |
| <ul style="list-style-type: none"><li>• Developed and deployed a 2D-Autoregressive ML model to predict loan loss and cash-on-cash returns for the entire loan portfolio.</li><li>• Owned the end-to-end solution, from data ingestion and feature engineering to production deployment.</li><li>• Built an interactive Streamlit dashboard to enable business stakeholders to visualize and act on predictive insights.</li></ul>                                 | 2020 – 2022<br>2 years |
| <b>Cyber Analytics</b> , Data Scientist   | Israel                 |
| <ul style="list-style-type: none"><li>• Designed and implemented end-to-end ML solutions, managing the full lifecycle from data collection and modeling to feature engineering, algorithm selection, and evaluation.</li></ul>  | 2019 – 2020<br>1 year  |

## 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](https://arxiv.org/abs/2505.17117)

## Projects

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|--|-------------|
| <b>GenAI Curation Challenge (Baot × Immunai)</b>   | 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

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**Programming & Tools****Machine Learning & AI**

## Languages

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**Hebrew**

Native

**English**

Fluent