

Talia Seada

Data Scientist

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Profile

Data Scientist and MSc student specializing in applied machine learning and NLP, with strong hands-on experience building end to end ML and LLM based systems in production like environments. Experienced in classical ML and LLMs for real-world decision support, particularly in healthcare and business optimization. Proven ability to translate ambiguous business and medical requirements into deployable ML solutions, from data preprocessing and modeling to evaluation, explainability, and stakeholder validation.

Technical Skills

- Python, SQL, Git, GCP, Databricks
- PyTorch, HuggingFace, scikit-learn, pandas, NumPy
- Deep learning, Machine learning, LLM, NLP, classification & regression, explainability.

Experience

Data Scientist | MLAIA Data Science | 2025 - Present

Student data scientist working on applied ML and LLM projects for healthcare and industry partners.

- **OffRa Health:** Built an ML and LLM system to predict breast cancer risk and generate personalized diagnostic care plans; implemented a novel research method on medical data; deployed a live web app under clinician review.
- **Schematics:** Designed a three-stage ML pipeline (two classifiers and regression) to replace bid-based ranking with expected-profit optimization; built and evaluated models in Databricks; delivered an internal decision-support tool.
- **Assuta Ashdod Hospital:** Developing an NLP system to predict fasting requirements from medical records using locally hosted LLMs with Ollama.

Research & Teaching Experience

- **MSc Researcher | Ben-Gurion University of the Negev** (2024 – Present) - Conducting thesis research on stance detection and summarization in Hebrew using LLMs. Designing evaluation metrics tailored to language preservation and meaning consistency.
- **Research Assistant | Ariel University** (2021-2024) –
2023 - 2024: Developed a Hebrew LLM derived from LLaMA2 using PyTorch and Transformers.
2021 - 2022: Co-authored a paper in Nature Scientific Reports [Nature Scientific Report Article](#) .
- **Teaching Assistant: Databases | Ariel University** (March – August 2024); **Ben-Gurion University of the Negev** (October 2025 - Present) - Taught SQL, relational algebra, and ML fundamentals.

Education

MSc in Software and Information Systems Engineering | Ben-Gurion University of the Negev | 2024-Present

- Thesis: Evaluation metrics for LLM-based stance detection in Hebrew.

BSc in Computer Science and Data Science | Ariel University | 2020-2024

- Participated in Microsoft-Ariel social tech hackathon – 3rd place.
- Gained experience in Python, SQL, networking, and Linux.

Projects

Adversarial Attacks on Hate Speech Detection | [Models Attack Project](#)

Fine-tuned HateXplain (BERT-based) for robustness against input manipulation. Applied NLP preprocessing and adversarial data augmentation.

Malicious PowerShell Script Classifier | [Classifier Project GitHub](#)

Designed an ML model to detect malware in PowerShell scripts. Leveraged tokenization and feature engineering for classification.

Volunteering

AI Developer | Code for Israel - Krembo Wings Initiative | February – June 2025

- Build AI-powered games for children with special needs. Focused on accessibility, user interaction, and prompt optimization.