Talia Seada
MSc Student | Data Scientist

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Profile

Aspiring Machine Learning Engineer and MSc student specializing in NLP and LLM research with hands-on experience in Python, PyTorch, Transformers, and data analysis. Currently developing evaluation metrics for Hebrew language LLMs. Proven ability to communicate complex ideas as a university teaching assistant and private Python tutor. Passionate about socially impactful tech through AI volunteering.

Technical Skills

· **Languages & Tools:** Python, SQL, Git, Jupyter, GitHub, Linux.
· **Libraries & Frameworks:** HuggingFace Transformers, PyTorch, scikit-learn, pandas, NumPy, Optuna.
· **Concepts:** LLM evaluation, stance detection, model fine-tuning, prompt engineering, data preprocessing, supervised & unsupervised learning, feature engineering, model evaluation (F1, AUC), cross-validation, hyperparameter tuning, embedding models.

Experience

Data Scientist | MLAIA | 2025 - Present
· Student position.
· Working on projects of AI and ML with OffRa Health, Asuta Ashdod, and Schematics.

Teaching Assistant: Databases | Ben-Gurion University of the Negev | October 2025 - Present
· Instructed 60+ students across 2 groups in MySQL, Relational Algebra.

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.
· Tools: PyTorch, Transformers, Optuna, HuggingFace, pandas.

Research Assistant | Ariel University | 2021-2024
· **2023 - 2024:** Helped develop a Hebrew LLM derived from LLaMA2 using PyTorch and Transformers.
· **2021 - 2022:** Co-authored paper in Nature Scientific Reports on ML-driven synchronization analysis. Built pipelines in Python/Jupyter for data exploration and classification. Nature Scientific Report Article

Teaching Assistant: Databases | Ariel University | 2024
· Instructed 60+ students across 2 groups in MySQL, Relational Algebra, MongoDB, Neo4j.
· Covered ML-relevant topics including Naive Bayes, logistic regression, and SQL-based data exploration.

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.

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.

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