Talia Seada | Data Scientist

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Profile

MSc student in Software and Information Systems Engineering specializing in AI. Currently researching Hebrew large language models (LLM) evaluation metrics as part of my thesis work on stance detection. Former LLM Research Assistant at Ariel University with strong teamwork and problem-solving skills. I've also built a personal website using GitHub and TypeScript where you can explore my projects. I actively volunteer with Code for Israel, contributing to tech-driven social impact initiatives.
Seeking a position in the Artificial Intelligence field where I can apply my expertise and experience.

Experience

Researcher | Ben-Gurion University of the Negev | 2024 - Present.

- MAFAT research: Creating an evaluation metric for LLMs focusing on stance detection and preservation, aiming to improve their summarization capabilities in Hebrew.

Research Assistant | Ariel University | 2021-2024.

- **2023 - 2024:** Engaged in research and development of a Hebrew LLM derived from llama2, employing PyCharm IDE alongside PyTorch and Transformers libraries.
- **2021 - 2022: Published article in Scientific Reports of Nature Journal** on "Classifying interpersonal synchronization states using a data-driven approach: implications for social interaction understanding". Utilized machine learning and data exploration techniques, employing Python in Jupyter Notebook for analysis and model development.
  Article | Newspaper Article

Teaching Assistant for Databases | Ariel University | 2024.

- **2024:** Instructing students in MySQL, Relational Algebra, MongoDB, Neo4j, and statistical techniques including Naive Bayes, logistic regression, and linear regression.

Education

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

- Thesis: Research the stance detection task using NLP techniques and create evaluation metrics for LLMs in Hebrew.

B.Sc. in Computer Science and Data Science | 2020-2024 | Ariel University

- Experienced in Python, and SQL through degree projects. Familiar with Linux and computer networking.
- I took part in the Microsoft - Ariel University social entrepreneurship Hackathon and won third place.

Volunteering

Code For Israel - Knafayim Shel Krembo (Wings of Krembo) | AI Team - Krembot Group | 2025-Present

Develop AI-driven educational games to enhance learning experiences for members with special needs, focusing on accessibility and engagement.

- Apply prompt engineering and LLM evaluations to optimize interactions.

Projects

Document-based Conversational AI System for LangGraph Information Retrieval | project
Created a conversational AI system capable of answering questions about LangGraph by retrieving and synthesizing information from provided sources.

Adversarial attacks on SOTA hate speech detection models | project
Researched adversarial attacks on hate speech detection models and fine-tuned BERT HateXplain to improve resilience using NLP techniques.

PowerShell Scripts Classification | project
Developed a novel model for detecting malicious PowerShell scripts, leveraging insights from previous research and advancements in machine learning techniques using Python, my model offers a comprehensive approach to identifying malicious scripts with high accuracy.