Talia Seada | Data Scientist

(+972) 54-2670780 | talia2cs@gmail.com | https://www.linkedin.com/in/talia-seada/ | https://github.com/TaliaSeada | website

Profile

I am an MSc student in Software and Information Systems Engineering, with a keen interest in Artificial Intelligence. Former Research Assistant of LLMs at Ariel University, where I honed my skills in teamwork, independent project execution, and problem-solving. Additionally, I have built a website using GitHub and TypeScript where you can learn more about my work and projects. I actively volunteer in the Code for Israel community, contributing to tech-driven social impact projects. As part of my academic journey, I am currently focusing on my thesis, which involves creating evaluation metrics for large language models (LLMs) in Hebrew, aiming to improve their summarization capabilities.
Seeking a position in the data science field where I can apply my expertise and experience.

Experience

Research Assistant | Ariel University | 2021-2024.
- **2023 - 2024:** Engaged in a research and development of a Hebrew Large Language Model (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: Creating evaluation metrics for large language models (LLMs) for the Hebrew language.

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 | AI Team - Krembot Group | 2025-Present
Developing AI-driven educational games to enhance learning experiences for members with special needs, focusing on accessibility and engagement.

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.