

# Talia Seada | Data Scientist

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## Profile

I am a MSc student in Software and Information Engineering, with a keen interest in Artificial Intelligence. Former Research Assistant 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 me.

**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 ongoing 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 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, C++, 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.
- Important courses: deep learning and NLP: 100, machine learning: 95, machine learning methods for detecting cyber-attacks: 95, databases: 94, seminar in AI and Data Science: 94.

## 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.

### Medical Image Registration Research | [project](#)

Developed a model to register medical images using Python. My primary objective was to enhance the efficacy and affordability of breast cancer removal surgeries by focusing on the registration of MRI and Mammography images.

### 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.