Talia Seada | Data Scientist

054-2670780 | talia2cs@gmail.com | https://www.linkedin.com/in/talia-seada/ | https://github.com/TaliaSeada | https://taliaseada.github.io/

Profile

BSc student in Computer Science and Data Science, intending to pursue an MSc in Data Science. Currently thriving as a Research Assistant at Ariel University, where I adeptly balance collaborative teamwork with independent project execution. Additionally, I have built a website using GitHub and typescript where you can learn more about me.
Seeking a student position in the data science field where I can apply my expertise and experience.

Experience

RESEARCH ASSISTANT | ARIEL UNIVESITY | 2021-PRESENT.

- **2023 - Present:** 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

Education

Intended M.Sc. in Computer Science and Data Science | expected 2024-2026 | Ariel University / Ben-Gurion University of the Negev

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

Medical Image Registration Research | project
As part of my final research project, I developed a model to register medical images using Python, Jupyter Notebook, TensorFlow, NumPy, cv2, Matplotlib, Seaborn, and Pandas. My primary objective is 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.

Mobile Application - "GYM" | project
Developed a gym application with a focus on software engineering principles, utilizing Android Studio IDE using Java, and OOP principles. Successfully implemented a serverless tier using TypeScript and JavaScript, and integrated Firebase Database for data storage and Firebase Functions for the serverless tier construction.

Algorithms in Artificial Intelligence | project
Leveraged my skills in Java programming and utilized the IntelliJ IDE to implement the Bayesian Network and Probabilistic inference algorithms.