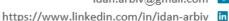
055 - 6604122

Idan.arbiv@gmail.com



https://github.com/IdanArbiv



Algorithm Engineer with interests in Generative AI, NLP, and Deep Learning.

Education

M.Sc. Computer Science/Ben Gurion University/GPA - 96 (Dean's List)

Deep Learning Researcher under the guidance of Dr. Omri Azencot, I focus on Deep Learning in the areas of Sequential Modeling, Generative Modeling, and Representation Learning utilizing technologies such as PyTorch, Keras, Scikit-learn, Hugging Face, Optuna, Pandas, spaCy, OpenCV, FastAI and Neptune.

Publications

- N. Berman*, I. Naiman*, I. Arbiv *, G. Fadlon *, and O. Azencot. Sequential Disentanglement by Extracting Static Information From A Single Sequence Element. International Conference on Machine Learning (ICML), 2024
- N. Berman*, I. Naiman*, I. Arbiv, G. Fadlon, Itai Pemper, and O. Azencot. Utilizing Image Transforms and Diffusion Models for Generative Modeling of Short and Long Time Series. Neural Information Processing Systems (NeurIPS), 2024

Teaching Assistant

- CS 202.1.2051 Principles Of Programming Languages (Spring 2023, 2024)
- CS 202.1.5391 Distributed Systems Programming (Winter 2023, 2024)

B.Sc. Computer Science/ Ben Gurion University / GPA - 93 (Summa Cum Laude, Dean's List)

Experience

APR 25 - PRESENT

GenAI & NLP Algorithm Engineer / WSC Sports

Develop and research production-grade services using NLP and GenAI Algorithms.

AUG 23 - APR 25

GenAI & ML Algorithm Engineer/SONY Semiconductor

- Designed and developed a cutting-edge LLM-based web app using advanced RAG techniques to address the challenges of searching and extracting 3GPP technical documents, providing a scalable solution for over 100 engineers.
- Implemented fusion-based indexing using BM25 and FAISS vector stores for efficient and accurate document retrieval, integrating deep learning encoders and Cohere reranker for enhanced accuracy.
- Leveraged LangChain and Graph RAG with a knowledge graph to connect and contextualize different document chunks.
- Utilized the ELK stack to manage and monitor document indexing, search performance, and overall system health.
- Integrated RAGAS for evaluation pipelines, deployed with Streamlit, and automated CI/CD processes using TeamCity.
- Enhanced system functionality with GenAl agents, adding conversational memory, multi-question routing with LLMs.
- Created a Python package for interactive plot visualization, leveraging Matplotlib to streamline data analysis and exploration.

MAY 22 -AUG 23

Software Engineer (Student)/ SONY Semiconductor

- Developed scalable, testable, and maintainable code for cellular IoT desktop applications using OOP, SOLID principles, and design patterns in Java, managing all stages from design to production with Jira, Git, and Bitbucket.
- Developed new software functionalities using Java and Spring Boot framework on the server side, as well as databases management, leveraging my understanding of various algorithms.
- Built dynamic UIs with React and Redux, integrating RESTful APIs and optimizing UX with analytics.

Communications (C4I) Officer - Captain / IDF

Led communication and technology systems for combat and special units, commanding 40+ soldiers, 15 officers, and 5 noncommissioned officers. Demonstrated strong leadership in diverse operational missions, including special assignments abroad, earning an **excellence certificate** for exceptional performance.