


Jonathan Kahana

 jonathan.kahana@mail.huji.ac.il

 +972 52-6547848

 Jerusalem, Israel

PhD candidate in Computer Vision and Deep Learning with 3 years of experience in Applied Machine Learning.

Served 2 years in 'Talpiot', where I started my B.S in Computer Science and Physics, which I finished during the rest of my military service (GPA 84). Served 3 years in a Data Science Research team in the Israeli Air Force, where I mostly focused on Tabular and sequential models. Finished my MSc degree in the fields of Computer Vision and Deep Learning (GPA 97).

Education

- The Hebrew University in Jerusalem –MSc in Computer Vision and Deep Learning, GPA -97.
- The Hebrew University in Jerusalem - B.S in Computer Science and Physics from, GPA – 84.
- "Leyada" High School- Majored in Physics, Arabic, English and Mathematics.

Experience

Data Scientist

IAF, Tel-Aviv, Israel / September 2017 – August 2020

- Building a predictive model for classifying time-series data (modeled as a time-series for long term prediction, and as tabular data for a fixed short time prediction, due to client's demands)
- Worked on an object detection problem in videos (tracking objects from aerial videos)
- Several small other projects in the fields of time-series forecasting and clustering

Academic Research - Computer Vision & Deep Learning

HUJI, Jerusalem, Israel / October 2020 – Present

- Developing a new approach for domain-disentangled representation learning, using contrastive learning objectives.
- Published a paper in ECCV 2022.
- Took part in anomaly detection research project.

Skills

- Experience in Machine Learning algorithms (Logistic Regression, Random Forest, Various Boosting Algorithms, DNNs, RNNs, CNNs, Transformers etc.)
- Programming experience in Python (mainly for research purposes)

Other Accomplishments

- Took 3rd place in a machine learning hackathon ("DataHack") in Jerusalem, as part of my IAF team.
- Arranged a Data-Science Hackathon for military organizations in Israel, collaborating with "Or Yarok" association.

Publications

- Jonathan Kahana, Yedid Hoshen. "A Contrastive Objective for Learning Disentangled Representations". ECCV 2022.
<https://arxiv.org/pdf/2203.11284.pdf>
- Niv Cohen, Jonathan Kahana, Yedid Hoshen. "Red PANDA: Disambiguating Anomaly Detection by Removing Nuisance Factors".
(under submission).
<https://arxiv.org/pdf/2207.03478.pdf>