Ziv Sobol

Data scientist

054-7291122

SUMMARY

Innovative ML&DL researcher with 4 years' experience and a background in multidiscipline R&D through all phases of a product's life cycle.
Enjoys tackling challenges, brainstorming, and learning new tools. Create synergy from a wide spread of domains: Deep learning, vision, NLP, tabular, simulations, optimizations, sensory analysis, data augmentations, applied math, statistics, physics, optics, system engineering, and more.

WORK EXPERIENCE

2022 **Data scientist, DeepKeep**

- Analyzing models week spot. Vision and tabular.
- Implement attacks, evasion, anomaly & poisoning detectors, robustness analysis, data drift, explainability, noises sensitivity.
- AI security platform contributor.

2021 **Data scientist, Primrose, internship**

- Automatic handwriting recognition tool based on YOLO5.
- Configurable bilingual chatbot based on the ConveRT enhanced question-response Transformer architecture. Slim encoder, transfer learning training followed by few-shot customization and Data augmentation.
- Multi labelled long text classifier on imbalanced dataset, by using distilled Roberta.
- Define and run automatic crowd source labeling, combined with data augmentation.

2018-2021 **Algorithm architect, HP Indigo**

Technological focal point and director of a team that developed and maintained Automatic Test Jigs. Includes pattern recognition, feature extraction, classical object detection and data analysis extracted from wide variety of sensors.

2011-2018: **System Engineer (Oxitone medical, Raicol, Store-Dot)**

System & Optical engineering: research, development, and data analysis.

First wrist oximeter | FDA approval | New LCD tech | Patent 1 | Patent 2

SW

Python, Pandas, Pytorch, TF, Keras, Numpy, Matplotlib, CV2, NLTK, Scikit-Learn, Hugging Face, GIT, AWS, Docker, MongoDB, Tableau, MLflow.

EDUCATION

2021: **Machine & Deep learning**, Primrose.

2011: **M.Sc. Applied physics**, HUJI.
Developed a generalization model for Electrode Polarization and validate it through measurements, after design a unique measuring setup, based on Comsul simulations.

Publication 1 | Publication 2

2006: **B.Sc. with excellence, Physics,** BGU.