Idan Josifov

Computer and electrical Engineer

Mobile: +972-054-4533715
Mail: idanjo1789@gmail.com

B.Sc. Electrical engineer with a specialization in signal processing and computers with Deep Learning skills. looking to take advantage of the academic background I have gained and integrate into the field of artificial intelligence. Has self-learning abilities and a strong desire to expand my horizons.

Projects:

- **Color recognition from grayscale images:** in order to turn grayscale images into colorful ones. Using a combination of autoencoders, convolutional networks, and image processing techniques, I created a solution that was skilled at assigning colors to grayscale pixels. By merging these sophisticated networks, including network integration. This effort highlighted my skill in both deep learning and image processing, demonstrating my ability to innovate and deliver impactful solutions in these areas.
  Programming Languages: Python, PyTorch
- **Memory Game "Simon":** I designed a memory game incorporating image processing, starting with capturing the participant's image using a computer camera. The game then presents squares on the screen in a specific sequence, challenging the participant to touch them in the correct order.
  Programming Languages: Python, MATLAB.

Education:

2017 - 2023 - degree in computer and electrical engineering with specialization in signal processing and computers. Ben-Gurion University.

- In the computer track I learned the architecture of the processor allows me to develop algorithms and write code that works efficiently.
- In the signal processing track, I acquired comprehensive knowledge in building and refining models for image and sound processing. In addition, I acquired a deep understanding of building and editing models, using norm and value calculations.

courses:

- **A deep understanding of deep learning:** course on Udemy. During the course, I learned to build neural networks using PyTorch, understand the usefulness of gradient descent, and implement different architectures such as feedforward and convolutional networks. Topics such as autoencoders, transfer learning, regularization techniques and optimization of models, improve my understanding of deep learning principles.
- **Introduction to deep learning:** university course. I developed programming skills in implementing networks, and gained experience in planning, training and deriving different deep learning models.
- **Image processing:** university course. It provided me with a deep understanding of color representation in an image, the use of different filters and the techniques required to identify objects within images.

Military Service:

2012-2015 - fighter in the Target Intelligence Unit of the Combat Intelligence Collection Corps (has a 05 rifle).
I gained experience in carrying out special combat intelligence missions, including observations, espionage, target location and target using various weapon systems. I developed exceptional skills in real-time intelligence gathering and fire support.