**Algorithm Developer - Niv Yahav**

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Electrical Engineer, specializing in Digital Signal Processing, Image Processing,

and Computer Vision algorithms.

Experienced in developing new features for AI applications and modifying existing ones.

A fast learner with a passion for discovering and experimenting with new technologies.

**Experience:**

2020-Present **Computer Vision Algorithm Developer at DSP-IP**

* Worked with Tensorflow and PyTorch frameworks, Python libraries (OpenCV, Keras) along with optimization tools (Aws, IoT, Dockers) to Design prototype computer vision algorithms and deep learning architectures for different use cases and technologies.
* Developing semantic image segmentation and object tracking & detection features, executed by Linux OS and Bash Commands, for industry-leading companies such as **Elbit System**.

2018-2020 **Hands-on Python Development Experience**

* Object-Oriented Programming, Data Structures - principals & methodologies.
* A good understanding of image/video processing methods using the OpenCV library(C++, Python).
* Multiprocessing modules and parallel computing.

**Education:**

2017-Present **Electrical and Electronics Engineering Student – HIT**

GPA: 85. Expected Graduation in July 2021.

2006-2011 **High School -** **The New Mekif Tet**

**Academic Projects:**

* **Developing Mammogram Classification and Detection model using Deep Neural Network**

Developing an Artificial Neural Network for the prediction of breast cancer patient outcomes.

Using Deep learning libraries and tools such: Pandas, Scikit-learn, NumPy, OpenCV, Keras.

Researching various DL models to answer and apply the ideal performing model in production.

* **Developing Machine Learning Methods for FMRI Signals analyzing**

Developing a Machine Learning model using fundamentals principles and experimenting with various methods (PCA, LinearRegression, Classifiers – SVM, KNN, NaiveBayes, Lda), to reach the desired goal. the Implementation made with MATLAB.

**Military Service:**

­2011-2014 -**Serving as a combat soldier at the infantry – “Hativat Hanahal”.**

* Certified medic.
* Receiving maximum credit on both professional and social performances.

**Languages:**

Hebrew – Native.

English – Fluent (in both writing and communicating).