MATAN COHEN

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M.Sc in Mechanical engineering at TAU, specializing in computer vision and machine learning algorithms. Experienced in object detection/instance segmentation. Models' optimization techniques: structured/unstructured pruning, quantization, and features distillation.
Proficient in Python (PyTorch, TensorFlow, Keras, NumPy, Pandas, Scikit-Learn, OpenCV, SciPy, Matplotlib, ONNX, TensorFlow Lite, TVM).
Looking for Data Science / Computer Vision / Deep Learning / Machine Learning Algorithms Position.

EDUCATION

2019 – PRESENT
M.SC. IN MECHANICAL ENGINEERING, TEL-AVIV UNIVERSITY

My project is focusing on object detection network compression for real-time app. on a quadcopter.
Deep Learning Course: Implemented Siamese Neural Network with contrastive triplet loss function for OCT dataset and utilized k-means clustering for output features. Implemented Neural Network projects: CNN, RNN, VAE, Transformers and GANs.
Introduction to Computational Learning Theory Course: Implemented Perceptron, Boosting, and SVM algorithms.

2015 – 2019
B.SC. IN MECHANICAL ENGINEERING, BEN-GURION UNIVERSITY

EXPERIENCE

2020 - PRESENT
MECHANICAL ENGINEER, IAI ELTA SYSTEMS

Conducting Thermal analysis and mechanical design of electrical systems.

PROGRAMMING LANGUAGES & SKILLS

- Python, C/C++
- GCP, Notebooks and VirtulEnvs.
- Linux/Win OS, Git.
- Matlab & Simulink
- Computational Fluid Dynamics (CFD)
- NX, Solidworks and Ansys apps.

MILITARY SERVICE

2010 – 2013
Paratroops – 07 Training and Combat Medic

LANGUAGES

Hebrew – Native, English - Excellent