

# Etai Wigman

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**Machine Learning Engineer** with a B.Sc. in Electrical & Computer Engineering from Ben-Gurion University. Strong foundations in machine learning and computer vision, with hands-on experience building end-to-end ML pipelines including data preprocessing, feature extraction, model training, and evaluation. Experience working with probabilistic models, including generative AI components, and orchestrating them within structured ML pipelines. Fast learner, proactive problem-solver, and team player.

## Education

**Ben-Gurion University of the Negev** — *B.Sc. Electrical & Computer Engineering*, GPA: 81 | 2019–2024

- Specializations: Signal Processing, Algorithms, Machine Learning.
- Relevant Coursework: Machine Learning, Probability & Statistics, Estimation Theory, Optimization, Algorithm Design, Data Structures, System Programming.

## Projects

### **GenAI Safety Analyst – Applied ML & GenAI System**

- Built an ML-driven software pipeline that calls external language model APIs and applies rule-based validation to ensure predictable system behavior.
- Built end-to-end pipelines handling input processing, model interaction, structured outputs, and failure scenarios.
- Emphasized correctness, reproducibility, and robustness when integrating probabilistic AI components into a software system.

### **Face Mask Detection – Computer Vision ML System**

- Implemented an end-to-end image classification pipeline using PyTorch, including preprocessing, training, evaluation, and real-time inference.
- Designed modular data pipelines and evaluation routines to support systematic experimentation and reproducibility.
- Integrated the trained model with OpenCV for live webcam inference under varying input conditions.

### **Parkinson's Disease Detection – Deep Learning & Algorithmic Signal Analysis**

- Built an algorithmic pipeline combining feature extraction and supervised ML for time-series classification.
- Applied signal-based feature engineering to improve model stability and interpretability.
- Ensured reproducibility and stability through controlled experimentation, documentation, and evaluation.

## Work Experience

**KLA (formerly Orbotech)** — *IT Support & Systems Upgrade* | 2018–2019

- Assisted in modernizing computing infrastructure, coordinating upgrades across departments.
- Diagnosed and resolved system compatibility issues, improving reliability and productivity.
- Collaborated with cross-functional teams, gaining experience in troubleshooting and optimization.

## Military Service

**IDF – Communication Corps** — *Computer Network Administrator* | 2014–2017

- Managed and maintained over 500 computers and associated networks.
- Trained and guided team members, improving operational readiness.
- Awarded Base Commander's Excellence Award for outstanding service.

## Technical Skills

**Programming & Tools:** Python, C/C++, PyTorch, TensorFlow, OpenCV, NumPy, Pandas, Git, Hugging Face, Docker

**Domains:** Machine Learning, Computer Vision, Generative AI, Algorithm Design, ML Pipelines

**Soft Skills:** Problem Solving, Analytical Thinking, Proactive Attitude, Team Collaboration, Independent Learning

## Languages

Hebrew – Native | English – Full Professional Proficiency