



 Python and ML packages

NumPy	Scikit-Learn	Pandas
Matplotlib	OpenCV	Seaborn
HDBSCAN	TensorFlow	Statsmodels



Magrittr	dplyr	ggplot2
MASS	tibble	VGAM
SF	PSCL	leaflet
	Shiny	

Work Experience

2022-Present | Data Scientist, Freelance

- Data assembly, Clean up, EDA and visualization.
- Statistical modeling using different regression models.
- Geospatial information analysis and modeling.
- Pipelines creation for ML models implementation.
- Image classification and segmentation.

Portfolio - [GitHub](#)

- Dolphin echolocation clicks clustering and classification
- Ecology regression models
- Transportation planning
- Sorghum cultivar image classification

2022-Present | Agwa, Barlev Industrial Park,

Remote Agronomist

- Remote analysis of plants cultivation data using various sensors.

2016-2021 | CultivAID, A Social Enterprise for Agriculture and Water Development, Ethiopia\ Israel

• **2022-Present | Board Member**

- Establishing new research and educational partnerships.

**2019-2020 | Pedagogy and training materials development – Freelance**

- Developed agricultural introduction course for Ethiopian STEM centers.
- Led local researchers' trainings.

**2017-2018 | Regional Project Manager**

- Remotely managed agricultural projects in developing countries.
- Initiated connections with stakeholders from the public and private sectors.

**2016-2017 | Demonstration plot field manager, 6-month Internship**

2017-2021 | Dror Galil, professional high school, Ravid Israel,

Ecological Science & Agriculture Teacher

- Taught technological eco-agriculture principles using project-based learning (PBL).
- Planned an experimental greenhouse for research purpose.
- Led innovative research projects collaborating with various research centers.

2011-2012 | TransAlgae Israel Ltd.

Algae Physiologist

- Planned experiments in the field of micro algae growth optimization.
- Co-Planned an upscaled microalgae cultivation bioreactor.
- Planned water and air systems.

• Education

2022 | Data Science Bootcamp, Naya Technologies (560 academic hours)

Classification and clustering algorithms, dimensionality reduction (PCA, UMAP), feature selection, pipeline architecture, ML, NN, DL, CV, NLP, scoring metrics (F1-score, ROC-AUC).

2021 - Dec | IBM Data Science Professional Certificate.

Coursera (7/10 courses) **IBM** Cloud, Python & SQL, Data Analysis.

2014-2017 | Biotechnology, Ben Gurion University of the Negev.

Study toward M.Sc. (Completion of thesis writing is required)  
Research, Remote sensing, Statistics

2008-2011 | B.Sc. Marine Sciences, Ruppin Academic Center

Statistics, Biology, Oceanography, Calculus 1-2

• Activities & Certificates

2008-2017 | Science tutoring, Different Fellowships

2008-2011 | Volunteer, Sea Turtle Rescue and rehabilitation Center.

2008-2011 | Sailing License class 30 (GMDSS)

• Languages

Hebrew – Native. English – Fluent. Tigrinya – Basic.