

# Yael Magen

DATA SCIENTIST

HOD HASHARON, ISRAEL

## PROFILE

Highly motivated and conscientious data scientist with 5+ years of experience as an R developer and 3+ years of experience as a SAS programmer and SQL data analyst. Graduated M.Sc. in Statistics and currently work as a freelance data scientist at "The Feuerstein Institute". A good team player, passionate researcher with a can-do attitude, able to master new skills quickly, creative and possess excellent presentation skills.

## SKILLS

- High proficiency in R
- Python: Numpy, Pandas, Scikit-Learn, PCA, MCA, Kmodes, Kmeans, Scipy, Seaborn, Matplotlib
- Knowledge of ML algorithms
- Research Skills
- Kernel Density Estimation
- SQL Data mining
- Modelling Tools
- Git
- SAS
- SPSS
- Strong analytical skills
- Good communication skills
- Problem solving
- Attention to the details
- Thinking "outside the box"

## ACHIEVEMENTS

- **Graduated with excellence** (B.S)
- **Receiving an excellence award** for teaching Statistics and SPSS (2015)

## CONTACT

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## EXPERIENCE

### DATA SCIENCE RESEARCHER AND BACKEND PROGRAMMER

THE FEUERSTEIN INSTITUTE | MAR 2018 - PRESENT

- Conducted a research to infer different groups of learning propensity using Python. Comparison of machine learning clustering algorithms such as k-means, k-modes, Rock, divisive and agglomerative clustering. Dimensionality reduction methods such as PCA, MCA.
- Developing and maintaining R based platform for data processing on production. Analysing students' errors using statistical procedures to assess their learning propensity and producing detailed reports for the users. Pulling data from json files, writing customised functions, performing significance testing, error handling in code, debugging, working with git and with various packages.
- Statistical consultancy

### TEACHING ASSISTANT

TEL AVIV UNIVERSITY | SEP 2014 - FEB 2018

- Teaching assistant consisted of frontal teaching of Statistics and SPSS in several courses.

### DATA ANALYST

TITAN.FR - THE NATION TRAFFIC | SEP 2009 - AUG 2010

- Analysis of marketing campaigns using SAS programming, sql and Excel Visual Basic.

### DATA ANALYST

G-STAT | OCT 2007 - AUG 2008

- Fitting a logistic regression model for prediction of excellence in order to retain employees that are valuable assets to Leumi Group.
- Maintaining a logistic regression model for prediction of employee churn in Leumi Group.
- Data analysis using SAS programming and SQL queries.

## EDUCATION

### PROFESSIONAL DEVELOPMENT

Python fundamentals | JAN 2021

PluralSight MOOC

Deep learning specialization | DEC, 2020

Coursera MOOC by deeplearning.ai

### TEL AVIV UNIVERSITY

Master of Science - MSc, Statistics | MAY 2019

Thesis under the supervision of Prof. David Steinberg: ROC Analysis: Hypothesis Testing for Sensitivity at a Fixed Specificity: Investigation and Comparison of Five Tests.

Finding and comparing methods to approach the problem of testing whether a classifier achieves a certain level of sensitivity, with specificity which is not lower than a specified value.

The performances of these methods were tested using simulation studies including realistic simulations based on observed data samples.

### TEL AVIV UNIVERSITY

Bachelor of Science - BSc, Biology | MAY 2007