Gilad Gecht

DATA SCIENTIST/MACHINE LEARNING ENGINEER

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# About Me

**Programming** Python · C++/C · OOP · MySQL · SQL Server

**Machine Learning** Numpy · Pandas · Matplotlib · Sklearn · NLTK · OpenCV · Keras

**Languages** Hebrew – Mother Tongue · English – Mother Tongue

**Personal Skills** Autodidact · Highly Organized · Multitask Mentality · Great Interpersonal Communication

# Education

**Holon Institute of Technology**

* COMPUTER SCIENCE MAJOR B.Sc. – 84 GPA *Nov. 2016 – July 2019*

**Gimnasia Realit**

MAJORED IN BIOCHEMISTRY *Sep. 2009 – June 2012*

* Graduated with honors with a GPA of 103

# Experience

**Bar-Ilan University**

RESEARCH ASSISTANT *OCT. 2019 – PRESENT*

* Developed a Selenium based file scraper in Python to download needed files from the united nation’s digital library
* Developed a fully automatic PDF files text extraction application using Python using extensive regular expression filtering to extract desired text and fields including
* Built a data warehouse solution for said texts

**Holon Institute of Technology**

TEACHING ASSISTANT *MAR. 2019 – PRESENT*

* Teaching assistant in “Data Mining” & “Machine Learning” courses
* Assigning student’s grades in exercise assignments
* Approval of project proposals
* Creating teaching material

**Mars Media Group**

MACHINE LEARNING ENGINEER *DEC. 2018 – SEP. 2019*

* Developed Machine Learning & Deep Learning based recommendation systems for advertisement products improving overall CTR, CPI & CR using Sci-Kit learn & Keras
* Complete pipelines with data preprocessing, feature engineering and model tuning
* Implemented a model monitoring system to keep track of model’s overall performance & tuning
* Performed statistical analysis of data to gain meaningful insights to improve the model’s overall performance while consulting with various product teams to define proper KPI’s

# Researches & Publications

## Academic Research – Missing Data Restoration

* Supervised by: Dmitry Goldstein, PhD
* Participated in an academic research in association with “Ichilov” hospital where we developed a multi-stage-multi-class classification algorithm by calculating the Probability Mass Function (PMF) using Bayes’ theorem and projecting the data to a lower dimension using Principal Component Analysis (PCA) and trained using a Random Forest model able to predict 2 missing parameters from damaged signals

[**https://link.springer.com/article/10.1007%2Fs10439-019-02380-4**](https://link.springer.com/article/10.1007%2Fs10439-019-02380-4)

## Academic Research – Identifying Pre-Depression Symptoms in Social Media Forums

* Supervised by: Jonathan Schler, PhD
* Created a fully functional system, with automatic web crawler – scraping data on a daily basis from social media forums which is then stored in “Elasticsearch”, analyzed and visualized with “Kibana” using Elastic’s ELK stack
* Built 2 predictive models based on Machine Learning and Deep Learning using “Keras” & “Sci-kit Learn” to create character level embedding layer which is fed to an LSTM network.