#### YISHAI RASOWSKY

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#### **WORK EXPERIENCE**

### Data Scientist (Independent contractor), Shamaym, 2021-22

- Developed NLP topic modelling to classify debriefs, and achieved precision 95% and recall 50%.
- Created NLP text generation to autocomplete, summarize, and auto-suggest using OpenAI.
- Built Python flask app modules with Linux server for deployment into production.

## Data Scientist (Independent contractor), Streamline Verify, 2021-22

- Created NLP record linkage algorithm with scikit-learn to deduplicate professional records of medical professionals, and achieved >95% completeness and homogeneity.
- Implemented resampling procedure using the bootstrap method and k-fold cross validation in order to optimally leverage a limited data set.
- Engaged in feature engineering and feature enrichment using Pandas and geocoder to enhance the business value of each insight to be gleaned from my data.

### **INTERNSHIPS**

### Data Scientist (Internship), Sefaria, 2020

- Created NLP multi-label classifier using scikit-learn to assign topic labels to text bilingual passages (ancient Hebrew and English), and achieved >95% precision, 36% recall. Designed algorithm specifically for high precision.
- Implemented hierarchical classification using a knowledge graph in order to enrich the insights gleaned from each parent topic and its children.
- Developed an end-to-end NLP pipeline using Pandas, Scikit-Learn, Scikit-MultiLearn, MatPlotLib, Seaborn, and Kubernetes in order to automatically provide the potential user with desired topic labels.

### Python Developer (Independent contractor), Smrt, 2019

- Created NLP entity extractor using rule-based logic for extraction of key entities from PDF office lease contracts, which achieved accuracy of >90% for several entities and boosted precision and recall by 20%.
- Developed interactive confusion matrix using mplcursors and to evaluate statistics of predictions.
- Created the end-toend AI portion of the product's web app using Pandas, Scikit-learn, SpaCy, Amazon Web Services, MatPlotLib, and Seaborn to enable fine-resolution entity identification.

### **PERSONAL PROJECTS**

<u>BERT Classification</u>: Created modules that prepare data to fine tune BERT for NLP multiclass classification and named entity recognition (NER).

**Neural Network**: Constructed from scratch without third party libraries. Displays superiority on non-linear dataset.

**Quantum Machine Learning**: Coding and analysis of loss function for quantum circuits on iris dataset

classification.

<u>Screen Capture</u>: Surveillance system to snap shots of your computer screen in real time, and send them to WhatsApp.

Story Illustrator: Based on the user's input text, this package produces a slideshow. Complete with appropriate images and captions. Published on PyPI available for installation.

# **EDUCATION**

# Honors BA Math and Physics, Amherst College, 2004-08

• Quantifying entanglement thesis; outstanding score on comprehensive math exam.

# Advanced Talmud, Ohr Somayach, 2008-16

Gemara with encyclopedic breadth and deep analysis; granted semicha.

# **CERTIFICATIONS**

## Data Science and Machine Learning Certificate, IBM, 2018

- Executed data-driven solutions to increase efficiency and accuracy.
- Created data regression models with visualization using predictive data modeling.

## **Programming Course, Udacity**, 2018

- Achieved proficiency in Python, Numpy, Pandas, and Github.
- Implemented knowledge acquired in SQL, HTML, CSS, Javascript.

#### **SKILLS**

- Analystics, Pandas, Visualization
- NLP, Scikit-learn, Tensorflow, PyTorch
- Agile, AWS, MongoDB, Django

- Industrious, organized, clean coding
- Selecting and developing ML models
- Learning new technologies quickly