

YISHAI RASOWSKY

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SKILLS

- Python, Pandas, Matplotlib, Seaborn
- Scikit Learn, Tensorflow, PyTorch
- Spacy, NLTK, RegEx
- Flask, AWS, MongoDB, Django
- Industrious, organized, clean coding
- Selecting and developing ML models
- Learning new technologies quickly
- Creative problem solving

EXPERIENCE

Independent Consultant

- **Slideo, 2021**
Created algorithm to extract keywords from Hebrew sentences, obviating the need for translation. Developed a formula for prediction that focused on relevant parts-of-speech, and dependencies. Used YAP for POS tagging and dependency parsing, Pandas, SpaCy.
- **Waymark.Tech, 2021**
Enhanced reference extractor for legal documents. Boosted precision and recall by 50%. Used RegEx, Pandas, AWS: S3 Buckets.

Data Scientist, Sefaria, 2020

- Created NLP multi-label classifier to assign topic labels to text passages.
- >95% precision, 36% recall. Designed algorithm specifically for high precision.
- Dataset was bilingual, in ancient Hebrew and English.
- Leveraged knowledge graph to enable hierarchical classification.
- Used Pandas, Scikit-Learn, Scikit-MultiLearn, Matplotlib, Seaborn, Kubernetes.

Python Developer Smrt, 2019

- Created NLP entity extractor for lease contracts using rule-based logic.
- Developed interactive confusion matrix and statistics to evaluate predictions.
- Achieved accuracy of >90% for some entities; boosted precision/recall by 20%.
- Used Pandas, Scikit-learn, SpaCy, Amazon Web Services, Matplotlib, Seaborn.

PROJECTS

Neural Network:

Constructed from scratch without third libraries. Displays superiority on non-linear dataset.

Quantum Machine Learning:

PCA for MNIST dataset, coding and analysis of loss function for quantum circuit on classification.

Sefer Maker:

Utilized Sefaria's API to automate creation of PDF sefer with translations and commentaries.

Image Classifiers:

Implementation of convolution neural network. Binary as well as multiclass applications.

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

- Quantifying entanglement thesis ([link](#)); outstanding score on comprehensive math exam.

Advanced Talmud, Ohr Somayach

- Gemara with encyclopedic breadth and deep analysis; granted semicha.

CERTIFICATIONS

Data Science and Machine Learning Certificate, IBM

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

Programming Course, Udacity

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