YISHAI RASOWSKY

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I am a very organized self-taught software developer who writes clean code. I am passionate about solving real business problems by designing successful algorithms and machine learning models. My advanced physics and mathematical background makes me a great problem solver.

SKILLS

- Selecting and developing ML models
- Scripting, Linux, and Kubernetes
- Learning new technologies quickly
- Creative thinking
- Systematic problem solving
- Industrious and organized

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.
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 B.A. IN MATH AND PHYSICS, **AMHERST COLLEGE,** 2008

- Honors physics thesis in quantifying entanglement of QM states.
- Outstanding score on the comprehensive exam in mathematics.

ADVANCED TALMUD, **OHR SOMAYACH,** 2008-18

- Excelled in Gemara study with both encyclopedic breadth, and in-depth analysis.
- Granted semicha (rabbinical ordination) from HaGaon Rav Zalman Nechemya Goldberg.

CERTIFICATIONS

DATA SCIENCE AND MACHINE LEARNING CERTIFICATE, **IBM,** 2019

- 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.