Model 4

differential_equations

logistic_regression

pip install sense2vec

prodigy sense2vec.teach ml_method /Users/sashaqanderson/Dropbox/USGS/NER_Work/s2v_old --seeds "differential equations, logistic_regression"

prodigy sense2vec.teach ml_method /Users/sashaqanderson/Dropbox/USGS/NER_Work/s2v_old --seeds "simulation"

prodigy terms.to-patterns ml_method --label ML

{"label":"ML","pattern":[{"lower":"differential_equations|NOUN"}]}

{"label":"ML","pattern":[{"lower":"logistic_regression|NOUN"}]}

{"label":"ML","pattern":[{"lower":"ODEs|NOUN"}]}

{"label":"ML","pattern":[{"lower":"differential_geometry|NOUN"}]}

{"label":"ML","pattern":[{"lower":"PDEs|NOUN"}]}

{"label":"ML","pattern":[{"lower":"linear_regression|NOUN"}]}

{"label":"ML","pattern":[{"lower":"topology|NOUN"}]}

{"label":"ML","pattern":[{"lower":"partial_differential_equations|NOUN"}]}

{"label":"ML","pattern":[{"lower":"Fourier_transforms|NOUN"}]}

{"label":"ML","pattern":[{"lower":"PDE|ORG"}]}

{"label":"ML","pattern":[{"lower":"differential_equation|NOUN"}]}

{"label":"ML","pattern":[{"lower":"ANOVA|ORG"}]}

{"label":"ML","pattern":[{"lower":"Fourier_analysis|NOUN"}]}

{"label":"ML","pattern":[{"lower":"linear_equations|NOUN"}]}

{"label":"ML","pattern":[{"lower":"Fourier_series|NOUN"}]}

{"label":"ML","pattern":[{"lower":"dynamic_programming|NOUN"}]}

{"label":"ML","pattern":[{"lower":"linear_transformations|NOUN"}]}

{"label":"ML","pattern":[{"lower":"ODE|ORG"}]}

{"label":"ML","pattern":[{"lower":"genetic_algorithms|NOUN"}]}

{"label":"ML","pattern":[{"lower":"heat_equation|NOUN"}]}

{"label":"ML","pattern":[{"lower":"wave_equation|NOUN"}]}

{"label":"ML","pattern":[{"lower":"Laplace_transform|NOUN"}]}

{"label":"ML","pattern":[{"lower":"Taylor_series|NOUN"}]}

{"label":"ML","pattern":[{"lower":"linear_functions|NOUN"}]}

{"label":"ML","pattern":[{"lower":"eigenfunctions|NOUN"}]}

{"label":"ML","pattern":[{"lower":"linear_approximation|NOUN"}]}

{"label":"ML","pattern":[{"lower":"simulation|NOUN"}]}

{"label":"ML","pattern":[{"lower":"neural_network|NOUN"}]}
{"label":"ML","pattern":[{"lower":"neural_networks|NOUN"}]}
{"label":"ML","pattern":[{"lower":"neural_net|NOUN"}]}
{"label":"ML","pattern":[{"lower":"neural_nets|NOUN"}]}
{"label":"ML","pattern":[{"lower":"genetic_algorithm|NOUN"}]}
{"label":"ML","pattern":[{"lower":"predictive_models|NOUN"}]}
{"label":"ML","pattern":[{"lower":"artificial_neural_networks|NOUN"}]}
{"label":"ML","pattern":[{"lower":"deep_learning|NOUN"}]}
{"label":"ML","pattern":[{"lower":"ANNs|NOUN"}]}
{"label":"ML","pattern":[{"lower":"computer_vision|NOUN"}]}
{"label":"ML","pattern":[{"lower":"machine_vision|NOUN"}]}
{"label":"ML","pattern":[{"lower":"natural_language_processing|NOUN"}]}
{"label":"ML","pattern":[{"lower":"statistical_models|NOUN"}]}
{"label":"ML","pattern":[{"lower":"reinforcement_learning|NOUN"}]}
{"label":"ML","pattern":[{"lower":"RNNs|NOUN"}]}
{"label":"ML","pattern":[{"lower":"NNs|NOUN"}]}
{"label":"ML","pattern":[{"lower":"SVMs|NOUN"}]}
{"label":"ML","pattern":[{"lower":"NLP|ORG"}]}
{"label":"ML","pattern":[{"lower":"SVM|ORG"}]}
{"label":"ML","pattern":[{"lower":"decision_trees|NOUN"}]}
{"label":"ML","pattern":[{"lower":"logistic_regression|NOUN"}]}
{"label":"ML","pattern":[{"lower":"Bayesian_inference|NOUN"}]}
{"label":"ML","pattern":[{"lower":"Bayesian_methods|NOUN"}]}

prodigy db-out ml_method > /Users/sashaqanderson/Dropbox/USGS/NER_Work/ml_patterns.jsonl

Prodigy ner.manual ml_data blank:en /Users/sashaqanderson/Dropbox/USGS/NER_Work/ner_text.jsonl --label ML

prodigy db-out ml_data > /Users/sashaqanderson/Dropbox/USGS/ml_data_model.jsonl

python -m spacy pretrain /Users/sashaqanderson/Dropbox/USGS/NER_Work/ner_text.jsonl en_vectors_web_lg /Users/sashaqanderson/Dropbox/USGS/NER_Work/pretrain_mlmodel/ --use-vectors

Prodigy ner.batch-train ml_data en_vectors_web_lg --init-tok2vec /Users/sashaqanderson/Dropbox/USGS/NER_Work/pretrain_mlmodel/model999.bin --output ml_model --eval-split 0.2 --label ML

0% Accuracy (Hmmm.. none in the actual training data?)

Prodigy ner.make-gold ml_data_correct ./ml_model /Users/sashaqanderson/Dropbox/USGS/NER_Work/ner_text.jsonl --label ML

Model was so poor and with 0% accuracy, I decided to try another one instead of unclicking every wrong entity (just about every word/phrase)