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| Kang (Kevin) Wang | (669) 295-8768  Kwang4@scu.edu  1057 Maxey Dr,  San Jose, CA |

**EXPERIENCE**

**ML INTERN – Trees.app • remote**

* Effectively communicated technical issues with non-technical team members to increase understanding on the business end of the startup
* I'm responsible for updating the previous ML recommendation system to accommodate the newly added features and questions in the app.
* The recommendation system consists of a KNN model from sklearn to find similar users, an SVD model from surprise to predict the ratings, and a Doc2vec from Gensim to vectorize the plan descriptions and find similarities between items.
* I also built a collaborative filtering recommendation system that achieved excellent results on little data for a new feature that recommends 5 mins daily challenges to users.

**EDUCATION**

**Mechanical Engineering – Santa Clara University • Santa Clara, California • 2020 - present**

**XCS229 – Online Stanford University • CA • 12/2021**

* Supervised Learning (Linear and Logistic Regression, General Linear Models (GLMs), Gaussian Discriminant Analysis (GDA), Generative/Discriminative Learning, Neural Networks, Support Vector Machines (SVM))
* Unsupervised Learning (Expectation-Maximization (K-Means, etc.), Principal Component Analysis (PCA), Dimensionality Reduction)
* Machine learning strategy (regularization, model selection, and cross-validation, empirical risk minimization, ML algorithm diagnostics, error analysis, ablative analysis)

**XCS224N – Online Stanford University • CA • 4/2022**

* Computational properties of natural languages
* Neural network models for language understanding tasks
* Word vectors, syntactic, and semantic processing
* Coreference, question answering, and machine translation
* Transformers and pretraining

**Post Graduate Program in AI and Machine Learning Purdue University – Simplilearn • 6/2022 – present**

* PG AI – Python for Data Science
* PG AIML – Applied Data Science with Python
* PG AIML – Machine Learning
* PG AI – Deep Learning with Tensorflow and Keras
* PG AI – Advanced Deep Learning and Computer Vision

**COMPETITION**

**eBay 2022 University Machine Learning Competition**

The competition is to build a NER model to tag entities in listings. I used spacy and flair. I currently achieved a 0.885 accuracy.

**SKILLS**

**PostgreSQL, Machine Learning, GCP, Sqlalchemy, NLP, Flair, Spacy, Python,** **Sqlalchemy**