Patricia (Patti) Degner

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A highly motived, self-starter with skills in statistics and machine learning.

EDUCATION

University of California, Berkeley; Master of Information and Data Science, GPA: 3.86 Dec 2020

University of Kansas; Lawrence, KS - B.S. Supply Chain Management, GPA: 3.55 May 2017

EXPERIENCE

Planner Buyer Agent, Randstad Engineering onsite at Xcel Energy; Thornton, CO 2018-2019
- Performed data analysis and created reports for improved efficiency of Xcel's supply chain

English Teacher, International Language Academy; Hanoi, Vietnam 2017-2018
- Independently created lesson plans in Google Slides and taught English to all ages and levels
- Communicated concepts to students who do not speak my language
- Awarded Outstanding Teacher for my skill and initiative in professional development

Office Assistant, University of Kansas Office of Study Abroad; Lawrence, KS 2015-2017
- Assisted in managing sensitive academic records of the 1800+ students that study abroad at KU each year

PROJECTS

These projects and more can be viewed on my portfolio: https://pdegner.github.io/

Natural Language Processing and Deep Learning for Sentiment Analysis of Mountain Project
- Scraped MountainProject.com using Python and BeautifulSoup
- Trained a deep learning model with DistilBERT to label sentiment of the online forums
- Analyzed the sentiment to determine which types of climbing gear are considered best

Python and Machine Learning for MNIST Digit Classification
- Used KNN, Naive Bayes, and Gaussian Naive Bayes to classify images of handwritten digits

Analysis of Wine Notes in Python
- Scraped a list of wine notes from Wikipedia
- Parsed wine notes from natural language descriptions of each bottle using Python
- Created visualizations relating wine notes to price using seaborn

A Real-World Experiment: Are Difficulty Labels Helpful for Test Takers?
- Surveyed 200+ participants on trivia questions, randomly split into labeled or unlabeled difficulty
- Used linear regression and LASSO in R to analyze the results and determined that participants performed better on the test if the difficulty was labeled

SKILLS

Programming: Python (numpy, pandas, seaborn, scikit-learn), R (tidyverse), SQL, Java
Other Technologies: Google Cloud, TensorFlow, Docker, Github, Transformers, Spark, Hadoop
Skills: Web scraping, Data cleaning, Statistical Modeling, Causal Inference