

Patricia (Patti) Degner

2505 Spruce Street APT 52
Boulder, CO 80302

620-899-7677
pattidegner@gmail.com
[linkedin.com/in/patricia-degner](https://www.linkedin.com/in/patricia-degner)

A data science graduate student specializing in 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
	<ul style="list-style-type: none">- Performed data analysis and created reports for improved efficiency of Xcel's supply chain- Created dashboard to show individual employee progress on work objectives	
	English Teacher, International Language Academy; Hanoi, Vietnam	2017-2018
	<ul style="list-style-type: none">- Communicated concepts to students who do not speak my language- Awarded Outstanding Teacher for my skill and initiative in professional development	
PROJECTS	Office Assistant, University of Kansas Office of Study Abroad; Lawrence, KS	2015-2017
	<ul style="list-style-type: none">- Assisted in managing sensitive academic records for 1800+ students that study abroad at KU each year	
	<i>These projects and more can be viewed on my portfolio: https://pdegner.github.io/</i>	
	Natural Language Processing and Deep Learning for Sentiment Analysis of Mountain Project	
SKILLS	<ul style="list-style-type: none">- Scraped MountainProject.com using Python and BeautifulSoup- Trained a transfer 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 Handwritten Digit Classification	
	<ul style="list-style-type: none">- Used KNN, Naive Bayes, and Gaussian Naive Bayes to classify and generate images of digits	
	Deep Learning GANs for Audio Upscaling	
	<ul style="list-style-type: none">- An ongoing team project to gather high-quality audio, compress it, then use GANs to restore it- Conduct self-guided, in-depth research about audio manipulation with	
	Mask R-CNN to Outline Car Damage	
	<ul style="list-style-type: none">- Trained CNN to label an image of a car as damaged or whole- Used masking to outline the damage on images	
	A Real-World A/B test: Are Difficulty Labels Helpful for Test Takers?	
	<ul style="list-style-type: none">- 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	
	Programming: Python (numpy, pandas, seaborn, scikit-learn), R (tidyverse), MySQL	
	Other Technologies: Google Cloud, TensorFlow, Docker, Github, Transformers, Spark, Hadoop	
	Skills: Web scraping, Data cleaning, Statistical Modeling, Causal Inference	