

NADIA FLOREZ MORCOTE

nadiaflorez@utexas.edu

github.com/florezn • linkedin.com/in/nadia-florez

EDUCATION

The University of Texas at Austin Master of Science, Information Technology & Management	May 2021
University of Colorado Denver Master of Arts, Economics	May 2016
University of Colorado Boulder Bachelor of Science, Economics and Applied Math minor	May 2013

TECHNICAL SKILLS

- Computer Languages: R, Python, SQL
- Computer Software: Excel, Jupyter Notebook, PostgreSQL, Git, MongoDB, Apache Spark, TensorFlow

EXPERIENCE

Dell Technologies Services – Business Analyst Intern	Spring 2021
<ul style="list-style-type: none">• Build a dataset recommender system for internal use to facilitate data discovery within petabyte-sized data lake as part of MSITM capstone project• Consult with internal clients on project needs to develop project goals and scope	
Center for Transportation Research, UT Austin – Research Fellow	2017 - 2019
<ul style="list-style-type: none">• Created automated data pipelines to clean, integrate, visualize, and analyze 10 large GIS datasets using PostgreSQL, Python and R software to deliver reports and interactive web applications to traffic engineers• Established data storage and archiving initiative for Austin Transportation Department, researching technology and industry developments, tools and trends to recognize best practices (NoSQL databases, AWS capabilities)• Collaborated with stakeholders to define client needs and end-use experience• Refined written, oral, and visual communication to describe quantitative methods succinctly and persuasively• Advanced project and self-managing skills to deliver integral project goals	

DATA-DRIVEN PROJECTS

Recommender System with Apache Spark	Fall 2020
<ul style="list-style-type: none">• Developed user-based song recommendation system using cosine similarity between users and their song preferences in the Million Song Dataset Challenge from Kaggle• Implemented recommendation system using MapReduce framework with Apache Spark distributed processing	
Predictive Image Analytics with TensorFlow and Google Colab	Fall 2020
<ul style="list-style-type: none">• Leveraged CIFAR-10 image dataset to train 2 deep learning networks (CNN and LSTM) for image prediction• Performed data augmentation and prediction methodologies in Google Colab using TensorFlow with 85% accuracy	
Bi-partite Network Analysis with Goodreads book data	Fall 2020
<ul style="list-style-type: none">• Scraped over 9,000 instances of book data from Goodreads to infer market characteristics of book publisher industry• Utilized bi-partite network analysis and LDA topic modeling to identify 9 “niche” publishers within the mystery genre	
MA Research Capstone Project “Marriage equality legalization and the mental health of young males”	Spring 2016
<ul style="list-style-type: none">• Presented novel research employing econometric inference, implementing statistical methods with Python and R• Employed longitudinal data for 50 states from 2000 - 2014 to show a significant (plausibly causal) correlation between marriage equality and mental health using CDC health data	

ADDITIONAL INFORMATION

Languages: English and Spanish fluency

Interests: hiking, camping, and traveling to explore various cultures

Work Eligibility: Eligible to work in the U.S. with no restrictions