


DAVID BERCHELMANN

DATA SCIENTIST

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I am a driven and results oriented professional who embraces opportunity and is adaptable. My background in project management and real estate has taught me how to listen with purpose, work with multiple internal and external partners, ask value added questions, and manage multiple projects at different stages of their life cycle.

TECHNICAL SKILLS

Machine Learning - Python - Pandas - Numpy - Applied Statistics - SQL - Matplotlib - Seaborn - Plotly - HTML - Jupyter - Natural Language Processing - Git - Storytelling - Tableau - Scikit-learn

EDUCATION

Codeup, Certificate of Completion | San Antonio, TX
December 2020 - June 2021

- Fully-immersive, project-based 22-week Data Science career accelerator that provides students with 670+ hours of expert instruction in applied data science. Students develop expertise across the full data science pipeline (planning, acquisition, preparation, exploration, modeling, delivery), and become comfortable working with real, messy data to deliver actionable insights to diverse stakeholders.

Baylor University 2003 - 2007

- BBA in Entrepreneurship & Marketing

PROFESSIONAL EXPERIENCE

Project Manger
Sharp Glass 2016-2020

- Worked government, private, non-profit & educational entities.
- Owned 5-10 projects at any given time at varying stages of the project life cycle with budgets ranging from \$20,000 to \$5,000,000.

Sales Manager & Real Estate Agent
Century 21 APD Associates 2008-2016

- Co-managed and assisted with training a sales team of 60 agents and also supported the property management office with lease signings and tenant/landlord communication.
- Supported and guided clients with the selling, purchasing, & leasing of real estate.

DATA SCIENCE PROJECTS

Capstone Project - Off the Rails June 2021

Our team is accessing the Department of Transportation's database to analyze 8 years of rail accidents across the United States. Given that railways account for a 1/3 of US exports, predicting which rail companies, under what conditions, are likely to result in an accident is necessary and valuable for both the industry and insurance companies.

Natural Language Processing May 2021

This project utilized web scraping to analyze hundreds of repositories on GitHub that focused on Formula One Racing. Once the data was acquired, natural language processing was implemented to create a classification model that would predict the programming language of each repository based on the text contents of each README file.

Zillow Regression April 2021

My goal with this project was to develop a linear regression based machine learning model that would accurately predict home values of single unit properties based on a Zillow database. SQL was utilized to capture the data while I used Python to clean/explore & model the data. Interactive mapping visualizations were created utilizing Plotly and Mapbox.

Predicting Churn March 2021

SQL was used to join multiple tables that would be imported into a Jupyter Notebook where a classification based machine learning model was constructed to predict customer churn. Chi² tests were used to affirm or reject null hypothesis while univariate, bivariate, & multivariate Python functions were used to help visualize independent and dependent variables to help establish correlation.