

ADAM TALBOT

DATA SCIENTIST

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My educational background in biological engineering, chemistry, and entrepreneurship in conjunction with my professional experience in real estate guides my approach to skillfully applying data science and machine learning techniques in a variety of domains and applications. Due to my data science skills and previous experience, I am a versatile and resourceful data scientist.

TECHNICAL SKILLS

Python - SQL - Pandas - NumPy - SciPy - Scikit-learn - Matplotlib
Seaborn - Jupyter Lab - Git - Apache Spark - Applied Statistics
Machine Learning - Classification - Regression - Clustering
Time Series - Anomaly Detection - Natural Language Processing
Data Analysis - Data Storytelling - Google Suite - Microsoft
Office - Real Estate - Biomedical Engineering - Spanish

EDUCATION

Codeup | Certificate of Completion | San Antonio, TX | Dec 2021

Fully-immersive, project-based, 22-week career accelerator that provides a strong curriculum focused on machine learning projects after teaching core data science fundamentals. The program focuses on the full data science pipeline while working with real, messy data to deliver actionable insights to diverse stakeholders.

USU | Biological Engineering | Logan, UT | May 2018

3.93/4.0 GPA. Entrepreneurship and Chemistry minors. Dean's list, 8 consecutive semesters. Dean's, Engineering Innovation, Lillywhite, SA Hall, SA Lloyd, David G. Sant, and SA E.L. & Inez Waldron Scholarship recipient. Engineering Undergraduate Research Program Scholar - received \$4500 of funding for self-led undergraduate research project. Active member of national Biomedical Engineering Society (BMES) and Tau Beta Pi Engineering Honor Society.

PROFESSIONAL EXPERIENCE

Investment Specialist/REALTOR | UpRise Real Estate Partners San Antonio, TX | Aug 2020 - Jun 2021

Represented investor and retail clients in acquiring \$2.37M in SFR real estate assets in 8 months. Developed and optimized system for finding, filtering, and acquiring SFR investment opportunities via the MLS that led to \$1.08M in investment property acquisitions by investor clients in 8 months. Created all content outlines and documentation for company-wide, fully-digital training platform used by new and experienced agents at the brokerage. Documented and optimized existing processes for numerous business activities as part of CEO's vision to scale business and remove himself from all client-facing activities.

Biomedical Engineering Research | USU | Logan, UT | Jan 2015 - Dec 2017

Designed microfluidic device for decellularization of murine brain slices. Prepared and characterized electrospun spider silk/synthetic polymer yarns. Spearheaded a project to quantify the effect of free ECM proteins on MSC culture with microcarriers in a benchtop mini bioreactor. Regularly performed stem cell culture techniques, prepared cells for flow cytometry, and analyzed results.

DATA SCIENCE PROJECTS

Texas Job Market Analysis | Time Series | Nov 2021

Acquired data from US Census Bureau and Texas Labor Market Information websites. Manipulated data in Pandas to melt columns to rows, subset data, plot, etc. Converted time series data to continuous data suitable for clustering using characterizations of total employment numbers over time for each industry. Clustered industries based on effect of pandemic on total employment numbers in 2020. Used Holt's Linear Trend Model to forecast recovery timeline 12 most-affected industries and then forecasted resumption of pre-COVID behavior using historic seasonality and year-over-year change.

Texas Used Car Sales | Regression | Oct 2021

Created a 4th degree polynomial regression model that could predict used car values within ~\$4,500 of actual sales price and that explained 89% of value variation on out-of-sample data. Identified the 13 best predictors from original feature set of 66 columns through exploratory data analysis and statistical testing. Developed an automated preparation script that took real-world, messy data and dropped rows and columns based on user-specified rules, imputed missing values with feature-specific methodologies, encoded categorical variables, removed outliers and scaled values for continuous variables.

Web Log Anomaly Detection | Probabilistic Methods | Oct 2021

Analyzed curriculum website log data to determine which lessons were being accessed, when, and by whom in order to inform curriculum development decisions. Investigated and identified potential anomalies in web traffic data in an effort to identify any nefarious activity.

Finding Error Drivers | Clustering/Regression | Sep 2021

Implemented K-means clustering models as part of exploratory data analysis of single-unit property Zillow data. Utilized OLS, GLM, Lasso-Lars, and polynomial linear regression models to identify potential drivers error in the preexisting model. Compiled information gained to provide recommendations for improvement of current model.

Predicting Assessed Value | Regression | Sep 2021

Developed regression models to predict assessed value of single-unit homes using Zillow data. Best-performing model significantly outperformed baseline and increased explained variance by 20% on out-of-sample data. Employed recursive feature elimination in concert with exploratory data analysis to select best features from large feature set.

Predicting Customer Churn | Classification | Aug 2021

Created Decision Tree, Random Forest, Logistic Regression, and KNN models to predict if telecommunications customers would churn with a 78% out-of-sample accuracy. Owned each phase of the data science pipeline including acquisition, preparation, EDA, modeling, and delivery. Leveraged skills in Python, SQL, Pandas, Scikit-learn, Seaborn, Numpy, and Matplotlib to complete project.