

# CHARLIE FRANZNICK

[GitHub](#)  
[LinkedIn](#)

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## PORTFOLIO

[Store Sales Prediction](#) – Predicting total sales for each product and store for the next month

- Analyzed trends for storefronts and time to uncover overall and seasonal trends
- Used feature engineering to improve model accuracy and extract most useful measures
- Resulted in a Root Mean Square Error of less than 1.25 on Kaggle competition

[Federalist Papers](#) – Classified Federalist Papers by author using natural language processing

- Cleaned and vectorized the data in multiple ways
- Explored different machine learning options including logistic regression and neural networks

[Guided Capstone Project Report](#) – Analysis of the ticket price for fictional ski resort

- Analyzed market prices for competing ski resorts across the country and locally
- Used random forest and linear regression machine learning algorithms to determine most important features
- Provided actionable insight into ticket prices and cost-saving measures to increase revenue

## CERTIFICATIONS

- Python (Programming Language) Skill Assessment badge
  - Data Science Career Track Program
- LinkedIn, Nov. 2021  
Springboard, Early 2022

## SKILLS

- Python, Numpy, Pandas, Matplotlib, Seaborn, NLTK, SQL, Scikit-learn
- Exploratory data analysis, machine learning, natural language processing
- Public speaking and presenting, Microsoft office

## EDUCATION

**The University of Texas at Dallas, School of Brain and Behavioral Science**

Bachelor of Science, *Cum Laude*, in Cognitive Science and Psychology

- Collegium V Honors, Major Honors, Dean's Awards for Excellence
- National Merit Scholar, James E. Casey Scholar
- Proficient in Mandarin Chinese

**Richardson, TX**

May 2021

## EXPERIENCE

**UTDallas, Research Assistant**

***Developmental Neurolinguistics Laboratory***

- Conducted data collection, manipulation, and verification with Excel, EEGLab, Audacity, and Matlab
- Provided leadership and training to lab members, directly managing tasks on a day to day basis
- Designed and executed novel studies using new and preexisting lab data

**Dallas, TX**

May 2019 – May 2021

**UTDallas, Sports Team Leader/Coach**

***UTDallas Fencing Club***

- Coach training current best regional non-NCAA collegiate fencing team
- Elected as Club Captain to lead and design practices and training exercises
- Rated C21 in Epee, E19 in Foil

**Richardson, TX**

May 2019 – Present

## INTERESTS

- I feel mental health is directly correlated with physical health, so I enjoy fencing and weightlifting.