

Resume

Collin Dougherty

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1 Overview

Collin Dougherty is an Eastman Scholar, Big Red Scholar, Chancellor's Scholar, Craig Dickinson Memorial Scholar and was named one of Omaha's 10 most outstanding young teens in 2018.

B.S.; Mathematics, University of Nebraska-Lincoln, 2022

B.S.; Psychology, University of Nebraska-Lincoln, 2022

Minor; Statistics, University of Nebraska-Lincoln, 2022

Website

collindougherty.com

Software Languages / Skills

Python, R, full stack stuff when it's needed

Favorite Packages

keras, tensorflow, scikit-learn, pytorch, tidymodels, xgboost...

2 Experience

Research Data Analyst, University of Nebraska Medical-Center (2022-Present)

- *Pipeline*: Developed a Shiny app enabling non-statistical researchers to conduct advanced analyses on government cancer databases, incorporating machine learning and survival analysis. This tool significantly accelerated research pace.

Publications at UNMC

1. Open Payments Data Analysis of General Surgeons
2. Refugee Women's Health Knowledge Gaps
3. Meta-analysis of Neoadjuvant Chemotherapy for Rare Pancreatic Cancers

Nebraska Cornhuskers, Data Science Intern (2019-2022)

- *Transfer portal web app*: Constructed a web app for Nebraska baseball team to evaluate transfer portal candidates, utilizing data scraping from various online sources.
- *xStats*: Developed a model to predict expected batter stats by accounting for "luck" factors, aiding in more informed player selection decisions.
- *SDS*: Created a machine learning model to quantify batter swing decision quality, influencing playing time decisions.

Projects

- *HuskerBot*: Created a Twitter bot using openai's GPT-4 via API and tweepy to summarize and tweet daily Husker news.
- *collindougherty.com*: Created my personal website from scratch using CSS, HTML, JS.