

## COLLIN DOUGHERTY

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### **Academic Information:**

University of Nebraska-Lincoln, Class of 2022  
Bachelor of Science in Arts and Sciences, with Distinction  
Majors: Mathematics, Psychology  
Minors: Statistics  
GPA: 3.87  
ACT Score: 35  
SAT Score: 1590 (800 MATH)  
Website: [www.collindougherty.com](http://www.collindougherty.com)

### **Top Honors/Awards:**

<b>Eastman Scholarship</b>	Awarded to the best 5 UNL mathematics majors
<b>TOYO! Teen 2018</b>	Awarded to the 10 most outstanding Omaha teens
<b>Big Red Scholar</b>	Honor for most distinguished incoming UNL freshmen in 2018-19
<b>US Presidential Scholar Nominee</b>	Nominated for most prestigious national award for high-schoolers
<b>Craig Dickinson Memorial</b>	Awarded to the top academic homeschooler in the nation

**Other Awards/Honors:** Chancellor's Scholarship, National Merit Scholar, National AP Scholar, American Citizenship Award, President's Award for Educational Excellence, Graduation with Distinction

### **Relevant Experience**

#### **Nebraska Athletics Data Scientist (2019-Current)**

Worked in the Nebraska Athletic Performance Lab and the Husker Sports Analytics Department. Used **machine learning** to analyze current player performance and build **predictive** models. Worked with baseball, softball, volleyball and tennis teams. Data collection, dataframe management, data cleaning, model building and testing. Worked under Tucker Zeleny and Brad Smith, formerly with Yankee baseball analytics department.

#### **Barna Group Data Analyst (Summer 2021)**

Through the usage of data analysis skills and methodologies, I worked to understand data collected from around the world. In addition to analysis, I planned study methodologies, wrote survey questions, and interacted with a variety of clients to provide statistical knowledge to navigate a changing world.

#### **Stock Market Analysis, Trading and Modeling (2019-Current)**

Designed, coded, and implemented models used to make profitable decisions regarding price action and direction of equity and cryptocurrency markets, through the usage of technical indicators and statistical machine learning. Additional implementation of price action trading strategies. Portfolio beating indexes by nearly 50% in past 6 months, amidst market correction.

#### **Resident Assistant at University of Nebraska-Lincoln (2019-2022)**

Resident Assistant in Knoll Residential Center, entailed community building, campus leadership, event planning, enforcing housing policy and integrating the Honors program with housing. UNL Resident Assistant of the Month (October 2019), UNL Student Staff Member of the Month (October 2020), 3 Time Nominee for RA/Student Staff of the Month

#### **Projects of Note** (see [www.collindougherty.com](http://www.collindougherty.com))

- Development and Analysis of a Model for Predicting Salaries in Major League Baseball
- Predicting NCAA March Madness Using Machine Learning
- Quantifying the Quality of Batter Swing Decisions Using Machine Learning
- xStats: Predicting Expected Batter Stats by Controlling for "Luck" Factors
- Effectiveness of Mask Use and Vaccination in the Prevention of COVID-19: A Mathematical Model

#### **Software Competencies**

R, Python, SQL, SPSS, MATLAB, PowerBI, LaTeX, Excel