

Kurt Lange

| Relocating to Boston, MA | (513)668-3911 | kurtlange41@gmail.com | [linkedin.com/in/kurt-lange-949265219](https://www.linkedin.com/in/kurt-lange-949265219) |

Profile

Retired NCAA D1 student-athlete and recent MS of Data Analytics graduate, forced to optimize time management and work flexibility while performing at a high level athletically and academically. These experiences have fortified my work ethic along with my adaptability to overcome challenges individually and with a team.

Experience

Ohio Baseball & Science Academy (Cincinnati, OH)

January 2022 to March 2022 (Internship)

Technical Analyst:

- Consolidated and analyzed recent, publicly available MLB pitching data in order to better focus training purposes for armature pitchers
- Investigated what factors (velocity, spin-rate, induced break, etc.) were most influential in pitcher success rate and focusing on the factors that were 'trainable'
- Built a decision tree along with other data visualizations allowing me to recommend what metrics to focus athletes training
- Used created visuals and information found analyzing results to present findings and make recommendations
- Utilized Python, Excel and R to find and visualize my results.

Ohio Baseball & Science Academy (Cincinnati, OH)

November 2020 to January 2021

Floor Trainer:

- Managed training, programing and development with a wide range of athletes
- Recorded and analyzed athletes' patterns to better develop athlete to their needs

Education

Long Island University - Post Campus (NY) - Graduated June 2022

Masters of Science: Data Analytics & Business Intelligence (GPA: 3.6)

- NCAA Division I Student-Athlete leading the Baseball team in ERA in a record setting championship season
- Learned and Utilized Python and R, along with SQL / MySQL
- Work included group and individual projects including time sensitive live coding sessions
- Projects included data sourcing, cleaning and visualization with different programs followed by individual or group presentation.

Projects:

- Implementation of causal inference in ML in Python to calculate the difference-in-difference between discount and sales in treatment and control groups. Then plotted counterfactual illustrating sales in the treatment group were influenced by up to 15%.
- Used CHAID in R-Studio to identify most influential non-game factors in MLB attendance to tailor better marketing strategies for MLB games, with day of the week being the most influential factor at 66%.
- Financial Data analysis of Ford Motor Company to predict stock volatility to S&P500 index with 10% significance levels.
- Analyzed & Predicted performance of website variations using Permutation testing and bootstrapping with 95% confidence level.
- Conducted a sentiment analysis looking at correlation between negative tweets and stock price with 98% accuracy.

Northern Kentucky University (KY) - Graduated May 2021

BA Political Science (GPA: 3.0)

- NCAA Division I Student-Athlete: Baseball
- Extensive development of critical thinking, problem-solving and communication skills
- Utilizing surveys, studies and other data to identify problems and conceptualize solutions
- Reinforced efficient and cordial communication skills specifically with peers holding opposing viewpoints.
- Strengthened public speaking and presentation skills communicating with professors and classmates on important topics.

Skills

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| ○ Python | ○ Datacamp certified-Data Manipulation with dplyr & pandas |
| ○ R-Studio | ○ Datacamp certified-Data Visualization with ggplot & seaborn |
| ○ SQL / MySQL | ○ Datacamp certified-Data Visualization with Seaborn |
| ○ Critical Thinking Under Pressure | |
| ○ Timely Decision Making and Communication | |

References:

Eric Minshall – ericminshall@hotmail.com

Coach Tom Carty – thomas.carty@liu.edu

Professor Syed Osman – Syed.Osman@liu.edu

*More Work on GitHub (github.com/KurtLange41)