

# KEVIN MILLER

## DATA ANALYST

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### SUMMARY

Detail-oriented data analyst with over 4 years of experience extracting and presenting actionable insights from diverse data sources. Skilled in quickly adapting to new methodologies and programming techniques to enhance analytical processes. Recently completed a master's in data analytics and eager to further develop skills in machine learning and artificial intelligence.

### EXPERIENCE

#### Graduate Research Assistant

August 2021 - July 2023

Department of Psychology, University of Nebraska-Lincoln

- Applied advanced statistical techniques to analyze data and report insights used in two academic grants and a published manuscript
- Streamlined brain imaging and behavioral data analysis pipelines for improved efficiency and usability of data

#### Undergraduate Research Assistant

June 2020 - May 2021

Department of Psychology, Emporia State University

- Collaborated on a published systematic review examining the role of language fluency in speaker's perceived truthfulness
- Aggregated and interpreted effect sizes from previous studies on the topic to guide conclusions of the systematic review

### PROJECTS

#### [Chi-Square and Random Forest Regression with data science jobs dataset \(Python\)](#)

- Interpreted significant categorical association between job experience level and position in data science jobs
- Accounted for 25% of job salary variance using random forest regression with experience level, position, and job setting as features
- Interpreted findings in context of broader data science trends, particularly for entry-level employees

#### [Metal Subgenre Pairings \(Python, R, SQLite\)](#)

- Web scraped over 100,000 band entries from Encyclopaedia Metallum using BeautifulSoup and Selenium in Python ([scraper.py](#))
- Parsed genre field in SQLite database to represent bands by component subgenres ([sql\\_subgenre\\_cleaning.qmd](#))
- Mined association rules between subgenres using market basket analysis metrics (i.e., support, confidence, and lift; [subgenre\\_pairings.qmd](#))
- Summarized key findings using a Tableau dashboard ([tableau\\_dash.qmd](#))

### EDUCATION

#### MS DATA ANALYTICS

Western Governors University  
September 2023 – May 2024

#### MA PSYCHOLOGY

University of Nebraska-Lincoln  
August 2021 – August 2023

#### BS PSYCHOLOGY

Emporia State University  
August 2018 – May 2021

### SKILLS

#### PROGRAMMING LANGUAGES

- Python (Pandas, Scikit-learn)
- R
- PostgreSQL, SQLite
- Linux

#### SUBJECT KNOWLEDGE

- Statistical Testing
  - T-test and ANOVA
  - Chi-Square and Correlation
- Data Visualization
  - Tableau
  - Matplotlib and Seaborn
  - GGplot2
- Scientific Writing

#### MACHINE LEARNING

- Regression (Linear and Logistic)
- Clustering (K-Means)
- Random Forest Models
- Dimensionality Reduction (PCA)

#### TOOLS

- Excel and Google Sheets
- Markdown and HTML Reports
- GitHub Repositories
- PowerPoint Presentations