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