**Nathanael Johnson**

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**EDUCATION**

**Middle Tennessee State University** Murfreesboro, TN

Master of Science Expected Graduation: May 2025

Major**:** Data ScienceGPA: 3.9

**Lipscomb University** Nashville, TN

Bachelor of Science Graduated: December 2022

Major**:** Data Science

**WORK EXPERIENCE**

**Amplion, Clinical Communications, Inc.**  Nashville TN

Business Intelligence Intern October 2022 – March 2023

* Identified and documented use cases in respective areas and showed users how to get the most value for their data
* Used various BI tools including Power BI and Tableau to generate four reports from data cleaned using ETL approach organized nursing data from different locations for each report
* Provided additional information on potential benefits of using Amplion’s product to measure operational and/or financial performance of their business, resulting in data being presented to various stakeholders.
* Created data visualization dashboards using JavaScript, HTML and Plotly.

**PROGRAMMING LANGUAGES, SOFTWARE SKILLS, CERTIFICATION & ACADEMIC PROJECTS**

* Python, SQL, R
* Microsoft Office Suite, Salesforce CRM, Tableau, Power BI, Figma, Github, Visual Studio Code, R Studio
* Statistical Analysis Software (SAS) Base Certification

**Project 1: Airbnb Price & Rating Predictive Analytics**

* Analyzed Nashville Airbnb data for InsideAirbnb.com, focusing on price and rating predictions.
* Applied Lasso and Ridge regression for price prediction with feature selection emphasis.
* Developed logistic regression for rating predictions, optimizing performance metrics.
* Enhanced user experience on InsideAirbnb.com by providing actionable insights.

**Project 2: Car Price Prediction with Data Science**

* Analyzed car sales data to predict prices using regression modeling and data science techniques.
* Implemented advanced data cleaning, feature engineering, and multicollinearity analysis.
* Utilized Lasso and Ridge regression to reduce overfitting and improve prediction accuracy.
* Transformed raw data into actionable insights for car price predictions.

**Project 3: Employee Attrition Analysis and Visualization**

* Utilized Tableau to analyze and visualize factors influencing employee attrition within an organization.
* Explored correlations between demographic data, job roles, and satisfaction levels to uncover attrition trends.
* Delivered actionable insights to improve employee engagement and reduce turnover rates.

**Project 4: COVID Data Analysis and Prediction using Python**

* Leveraged Python for analyzing COVID-19 data, employing K-Nearest Neighbors (KNN) and K-Means techniques to predict outcomes and uncover patterns.
* Conducted data cleaning, preparation, and model training to identify individuals at risk.
* Demonstrated Python's practical application in managing real-world datasets and deriving actionable insights.

**Project 5: Bird Data Analysis and Relationship Exploration with Python**

* Gathered and processed bird mortality data from diverse sources, employing Python for sorting, cleaning, and data scraping.
* Utilized Python to unveil correlations between different factors and bird deaths, showcasing its data transformation capabilities.

**VOLUNTEER & EXTRACURRICULAR EXPERIENCE**

**Nashville Analytics Summit Volunteer**, Nashville October 2023

**Sigma Alpha Fraternity**, Historian and Member, Lipscomb University 2019 – 2022