



# Predictive modeling: Data Dive (Group 5)

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# Data Dive on Nashville Airbnb Data

# Introduction

- Introduce the predictive model designed to forecast the average price per night.
- Highlight the significance of predicting prices accurately for effective decision-making in hospitality and accommodation sectors.

# Objectives

- Outline the primary objectives of the predictive model:
- To estimate the average price per night based on various attributes.
- To enhance pricing strategies and optimize revenue management.

# Models and Process

- Detail the model training process:
- Selection of appropriate algorithms (e.g. Decision Tree, Random Forest, Lasso and Ridge, Logistic Regression).
- Partitioning data into training and testing sets.
- Model validation techniques



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Visuals

# Top Amenities by price

- Correlation of amenities by price to pick out most desirable ones.
- Top Amenities:
  - Locked Door
  - Gym
  - Pool

