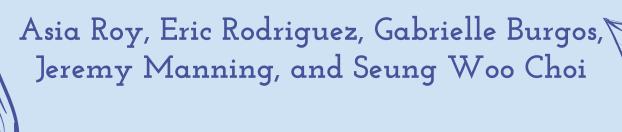


Predicting Restaurant Revenue





CONTENTS



Problem Statement

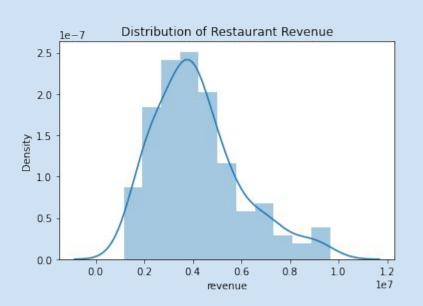
• Goal 1: Develop a model to predict annual restaurant

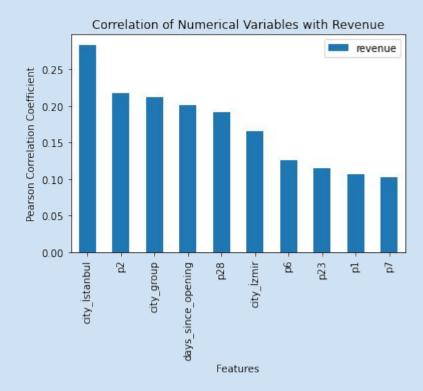
sales of 100,000 regional locations

• Goal 2: Identify the factors that contribute to

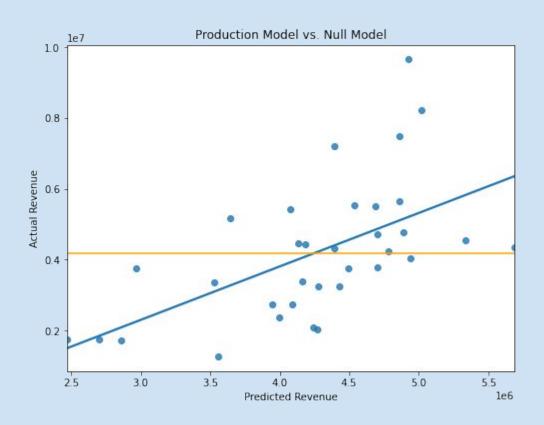
restaurant revenue

Exploratory Data Analysis





Production vs. Null Model



Modeling

Null Model:

O Mean of Revenue: \$4,181,438

$$\circ$$
 R² = 0.0

o RMSE = \$1,792,868

Model	R ²	RMSE
Multiple Linear Regression	0.208	\$1,683,384
Random Forest Regression	0.293	\$1,590,157

Production Model

Random Forest Regression



Conclusion



Size of the City

Big Cities



Location of the City

Istanbul, Turkey



Date Since Opening

Restaurants that have been around longer have higher revenue

