

# Project Proposal

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Oct 28th, 2021

## Introduction

## Data Description

The source of the dataset is Tiny Tuesday, <https://github.com/rfordatascience/tidytuesday/blob/master/data/2020/2020-02-11/readme.md>. This data set comes from an open hotel booking demand dataset from Antonio, Almeida and Nunes, 2019. It is sourced from this study <https://www.sciencedirect.com/science/article/pii/S2352340918315191#f0010>. Due to the dataset being over 100,000 observations, we have limited the observations to be only hotels from the US. The general characteristics being measured in the data are the different aspects of booking and staying at a hotel. For example, out of the 32 variables, some of the ones we find great interest in are hotel type, reserved room type, assigned room type, company, meal, number of adults/children/babies, the average daily rate or daily cost, and the reservation status.

## Analysis Approach

A research question we are interested in is how do factors such as type of hotel and type of guest affect the average daily rate for a hotel. We would also be interested in seeing how stays in the weekend or the weekday may affect the average daily rate for a hotel, and if they differ between the two hotel types, City and Resort hotels.