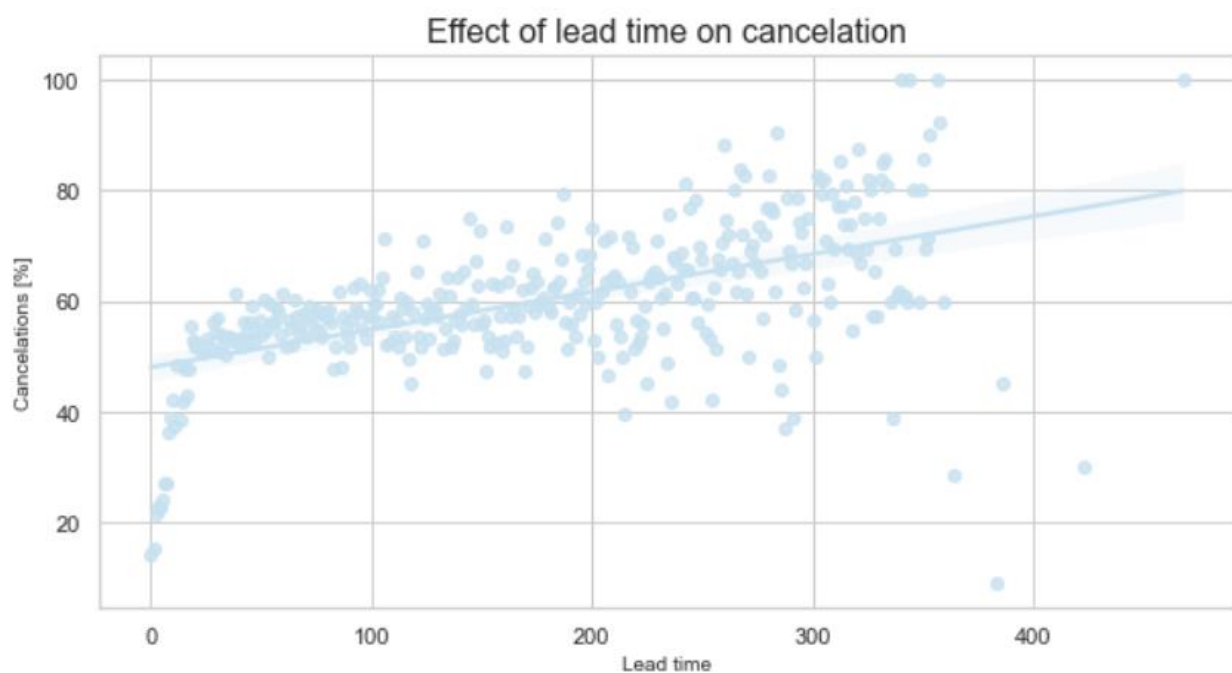


# Analysis of the Hotel Bookings

The goal of this project is to predict the possibility of canceling a hotel booking, which factors are most important, and how those factors relate to cancel.



This figure depicts the customers with the history of cancellation tend to cancel more often. Interestingly repeated guests tend to cancel more



This figure depicts the bookings made a few days before the arrival date are rarely canceled, whereas bookings made over one year in advance are canceled very often

To start exploring this goal I used a Logistic Regression Model as a base, and I used the Random Forest Model, the table below exploring the compare between the two models

Logistic Regression Model		Random Forest Model	
Accuracy	59%	Accuracy	84%
Recall	63%	Recall	83%
Precision	57%	Precision	84%

Based on the results, the Random Forest Model accurate more than Logistic Regression Model.