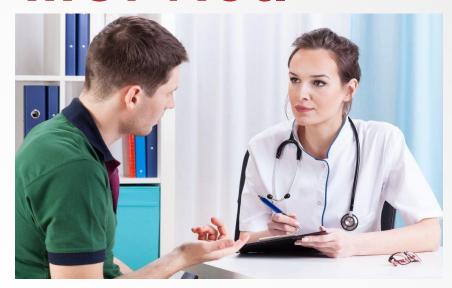
Attending a Doctor's Appointment ...Or Not.



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Outline

- Overview/Business Problem
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- Data Preparation
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Overview/Business Problem

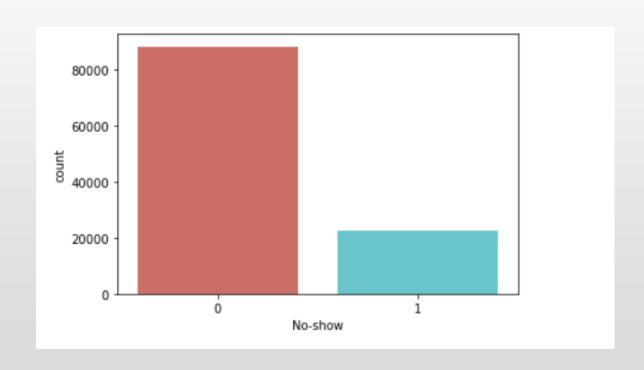
I am acting with a doctor's office in a Brazilian neighborhood. The doctor's office expresses concern that patients are not showing up for their scheduled doctor appointments. I desire to provide insight to the doctor's office on how to eliminate potential "no-show" appointments.

Data

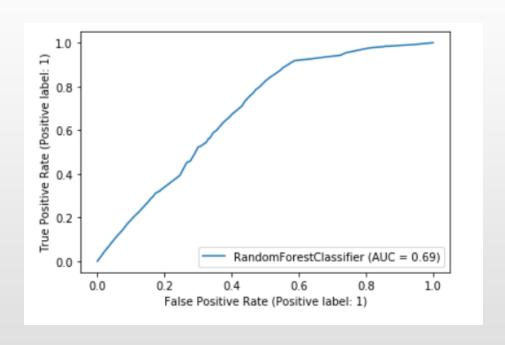
- This project uses data from a Kaggle dataset about medical appointment "no-shows".
- The data covers appointment records for 81 neighborhoods in Brazil.
- There are 110527 rows of appointment records in this dataset.

Data Preparation

- Recorded 88208 attended appointments and 22319 "no-show" appointments
- Changed AppointmentDay column to DayoftheWeek column
- Created DayDifference column
- Grouped by the "no-show" column

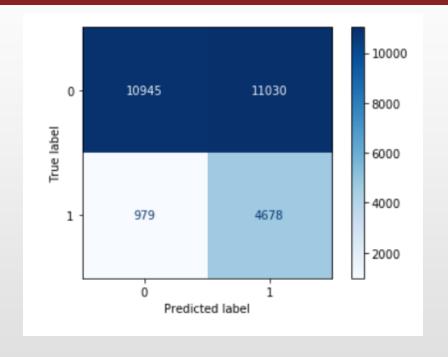


Data Modeling -Tree Based



Train Accuracy Score: 0.568

Test Recall Score: 0.832



Test Accuracy Score: 0.574

Test F1 Score: 0.441

- Age, SMS_received, and DayDifference most influential columns

Conclusions

- Include age differences in analyses
- Book less appointments farther out from the appointment day
- Remind people more frequently of their appointments whether by phone or by text

Recommendations for Further Analysis

- Consider gender more in future analyses
- Procure a "no-show" examination based on neighborhoods
- Locate and utilize data on doctor's office specializations

Contact Information

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GITHUB LINK:

HTTPS://GITHUB.COM/JMSTIPANOWICH/DOCAPPOINTME NTREPOSITORY

PICTURE SOURCE:

HTTPS://PHYSICIANREVIEWS.ORG/HOW-TO-MAKE-A-DOCTORS-APPOINTMENT/

THANK YOU!!!!!