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Baseline Models

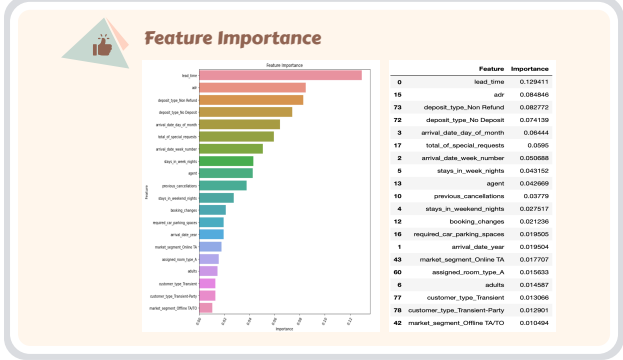
Age: 17 (1985)
Height: 1.75m
Weight: 65kg
Gender: Male
Marital Status: Single
Education: Bachelor's
Occupation: Software Engineer
Income: \$75,000
Credit Score: 720
Risk Score: Low

Model Tuning & optimization

- Choose Random Forest
- Adjust hyper parameters
- Result:

17 cases of training data is 0.85 (85%)
Remaining cases (30%) are 0.85 (85%)
Validation score of test data is 0.85 (85%)
Model score of test data is 0.85 (85%)
Prediction results of test data is 0.85 (85%)

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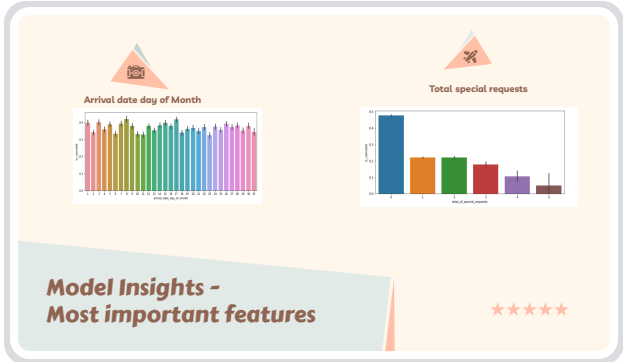


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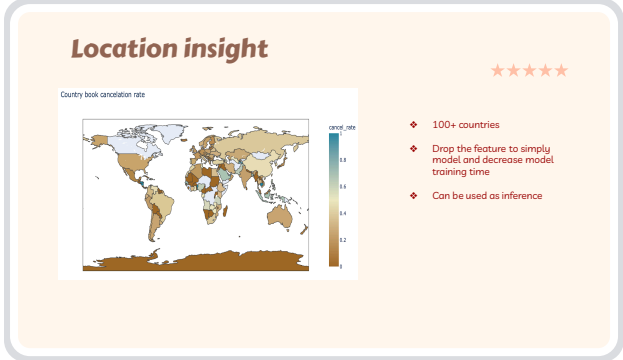
Model Insights - Most important features

Lead_time
Deposit_Type
adr: Average daily rate

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Suggestions

- Promote** - Offer refundable booking
- Adjust** - Market to low cancellation rate
- Provide** - Service that meets special requests of guests
- Collect** - Collect data for each arrival date, perform prediction with model and calculate cancellation probability. Adjust measurements to decrease cancellation rate.

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Thanks

Is Questions?

CHARTS: The presentation template was created by Slidesgo, modified by Slidesgo. Photos: iStockphoto, iStockphoto, iStockphoto.

Lead_time

Number of days that elapsed between the entering date of the booking into the PMS and the arrival date

Deposit Type

adr: Average daily rate

Model Insights - Most important features

★★★★★

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