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VacationHomez

Case Study

June 2019

## About

Walk in the shoes of a Data Scientist (the most sought job of the 21st century) by using innovative approaches, statistical analysis and cutting-edge machine learning to create forecasts and generate business insights.

## Case Study

**VacationHomez** is a global company renting out vacation homes around the world. They recently acquired a company in the US and are seeking to understand more about how they should be setting prices for these new properties. You have been asked by **VacationHomez** to analyze a dataset pertaining to these newly acquired properties to understand and explain the relationship between the log-price of their listings and the rest of the data that is provided.

The historical dataset contains information such as number of bedrooms, amenities, facility location, reviews and a log-price indicator; the objective is to identify and capture the dependency pattern of the log-price of the listing.

## Data

The training data for the competition consist of the following columns:

1. id : Listing ID
2. log\_price : log(price)
3. …. : 25 features for the listing

## Submission Format

The submission for the Case Study will be as a PPT deck that should cover the data-insights, modeling approach, end-to-end solution pipeline, actionable business insights and scope of the solution. Visualizations are going to be advantageous.

## Evaluation

The Case-Study solutions will be evaluated using following criteria:

* Innovative use of unstructured data
* Innovative machine learning algorithms/techniques used
* The understanding of modeling/machine learning approach
* Generalization of model and scope finalization
* Robust and dynamic nature of solution
* Innovative Feature Engineering/Transformation
* Quality of the solution documentation (visualizations encouraged)
* How effectively are insights presented and made actionable for business
* Simplicity, yet thoroughness of the explanation of the solution
* Explore the key drivers of the target variable, feature engineering and insight creation

## Timelines

The ppt deck created using this data needs to be presented at the end of the session as informed by the recruitment team.

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| **Thank you.** |  |
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