Data description

The original dataset is from Inside Airbnb of New York City (http://insideairbnb.com), which includes detailed listings data for New York City that compiled 07 September, 2020.

Link: (http://data.insideairbnb.com/united-states/ny/new-york-city/2020-09-07/data/listings.csv.gz)

The original dataset has 74 columns and 45756 observations. We manually screened out 32 columns that might be useful and saved as 'listings_new.csv'. Then, after data cleaning and NLP feature extraction, we got a data frame 'df_clean' with 14,064 observations, which contains 30 features variables and 1 class variable. Price are divided into 5 categories and below is the data dictionary for features variables:

Column	Description
host_is_superhost	'1' for yes and '0' for no
host_has_profile_pic	'1' for yes and '0' for no
host_identity_verified	'1' for verified and '0' for not
neighbourhood_group_cleansed	5 categories (0-4)
	0 for Bronx
	1 for Brooklyn
	2 for Manhattan
	3 for Queens
	4 for Staten Island
latitude	numeric variable
longitude	numeric variable
room_type	4 categories (0-3)
	0 for Entire home/apt
	1 for Hotel room
	2 for Private room
	3 for Shared room
accommodates	1-16
bathroom_share_or_not	'1' for yes and '0' for no
bedrooms	1-6, 10, 21
beds	0-8, 10
minimum_nights	numeric variable
maximum_nights	numeric variable
number_of_reviews	numeric variable
review_scores_rating	numeric variable
review_scores_accuracy	9 categories (2-10)
review_scores_cleanliness	9 categories (2-10)
review_scores_checkin	9 categories (2-10)
review_scores_communication	9 categories (2-10)
review_scores_location	9 categories (2-10)
review_scores_value	9 categories (2-10)
instant_bookable	'1' for yes and '0' for no

reviews_per_month	numeric variable
bathrooms	11 categories (0-10)
Pool	'1' for yes and '0' for no
BabyBath	'1' for yes and '0' for no
BabyMonitor	'1' for yes and '0' for no
LakeAccess	'1' for yes and '0' for no
BeachFront	'1' for yes and '0' for no
Piano	'1' for yes and '0' for no