This document contains the data dictionary for the Airbnb Rating Classification project. The project had the following tables:

- Calendar CSV
- Listings CSV
- Listings detailed CSV
- Neighbourhoods CSV
- Neighbourhoods GeoJSON
- Reviews CSV
- Reviews_detailed CSV

Listings Detailed Data Dictionary:

- id Unique id number associated with a listing.
- listing url The listing's URL.
- scrape_id The particular web scrape id where a single scrape_id is associated with each city/area.
- last_scraped the date of when the listing was last web scraped.
- source The source of web scraping. The values can either be 'city scrape' or 'previous scrape'.
- name Name of the listing.
- description Description of the listing.
- neighborhood_overview Description of the listing's neighborhood provided by the host.
- picture url A URL of the picture of the property listing.
- host id Unique identifier associated with the host.
- host url URL of the listing's host/URL of the host's profile.
- host name Name of the listing's host.
- host_since How long has the listing's host been on Airbnb as a host. This information is from the host's profile.
- host location The host's location.
- host_about Contains the 'host about' information found on the host's profile page.
- host response time The host's typical response time, which is categorical data.
- host_response_rate The percentage or rate at which a host responds to guests' inquiries or booking requests. This metric is on a continuous scale.
- host_acceptance_rate The percentage of booking requests that a host accepts out of
 the total number of requests they receive. Metric reflects a host's willingness/likelihood
 to accept guests into this listing. This metric is on a continuous scale.
- host_is_superhost This field indicates whether a host has been awarded Superhost status by Airbnb. Superhost status is a recognition given to hosts who provide exceptional service, including high response and acceptance rates, a record of positive reviews, and a commitment to maintaining an active and welcoming listing on the platform. This status is reviewed and updated by Airbnb on a quarterly basis.

- host thumbnail url The thumbnail photo URL of the host on the host's profile.
- host picture url The URL of the host's picture found on the host's profile.
- host_neighbourhood The host's neighborhood.
- host_listings_count This field represents the number of active listings that a host currently has on Airbnb. From the time of the web scraping, this field indicates how many listings the host has that are actively being offered to guests and are searchable or bookable on the platform.
- host_total_listings_count The field represents the total number of listings associated
 with the host, which includes both active/currently available for booking and inactive
 bookings. For any listing that is inactive, it can be inactive due to being temporarily
 unavailable or the host choosing to not currently offer the listing.
- host_verifications The field contains an array indicating all the methods/channels on how the host verified their identity and reliability with Airbnb.
- host_has_profile_pic A Boolean to indicate whether the host has a profile picture.
- host_identity_verified A Boolean to indicate whether the host has gone through Airbnb's verification process.
- Neighbourhood The listing's neighborhood.
- neighbourhood_cleansed This field represents a standardized version of the neighborhood names where the listings are located compared to the 'Neighbourhood' column.
- neighbourhood_group_cleansed When applicable, it groups neighborhoods into larger districts, areas, or boroughs to provide a more macro-level view of where listings are in a standardized format.
- latitude The listing's latitude coordinates.
- longitude The listing's longitude coordinates.
- property_type A categorical variable that indicates the listing's offered accommodation type.
- room_type A categorical variable that indicates the listing's offered room type. This field provides a simpler categorization compared to 'property' type' column.
- accommodates The number of people the listing can accommodate.
- bathrooms The number of bathrooms in the listing.
- bathrooms_text Field provides more detailed information on the number of bathrooms and the type of bathroom.
- bedrooms The number of bedrooms in the listing.
- beds The number of beds in the listing.
- amenities The field contains an array indicating all the amenities included in the listing.
- price The field contains the cost to rent the listing per night.
- minimum_nights The minimum number of nights a guest must book for a stay at the listed property.
- maximum_nights The maximum number of nights a guest is allowed to book for a stay at the listed property.

- minimum_minimum_nights Field represents the lowest number of minimum nights required for a booking that the host has dictated over the course of the listing appearing on the platform.
- maximum_minimum_nights Field represents the highest number of minimum nights required for a booking that the host has dictated over the course of the listing appearing on the platform.
- minimum_maximum_nights Field represents the lowest number of maximum nights allowed for a booking that the host has dictated over the course of the listing appearing on the platform.
- maximum_maximum_nights Field represents the highest number of maximum nights allowed for a booking that the host has dictated over the course of the listing appearing on the platform.
- minimum_nights_avg_ntm Field represents the average minimum nights required over the next twelve months (ntm). This field is important when considering the variation in minimum stay requirements throughout the year.
- maximum_nights_avg_ntm Field represents the average maximum nights allowed over the next twelve months (ntm). This field is important when considering the variation in maximum stay allowed throughout the year.
- calendar_updated The field represents when was the last time the host updated the listing's calendar to reflect changes in pricing or setting new minimum or maximum night requirements.
- has_availability A Boolean field indicating whether the listing is currently available for booking.
- availability_30 Field represents the number of days the listing is available for booking in the next 30 days from the current date.
- availability_60 Field represents the number of days the listing is available for booking in the next 60 days from the current date.
- availability_90 Field represents the number of days the listing is available for booking in the next 90 days from the current date.
- availability_365 Field represents the number of days the listing is available for booking in the next 365 days from the current date.
- calendar_last_scraped The field represents the last time the data was web-scraped, so the field effectively represents the current date.
- number_of_reviews The field represents the listing's total number of reviews since the listing became available on the platform.
- number_of_reviews_ltm Field represents the listing's total number of reviews received within the last twelve months (ltm).
- number_of_reviews_l30d Field represents the listing's total number of reviews received within the last 30 days (l30d).
- first review A date field to represent the first review the listing received.
- last review A date field to represent the most recent review the listing received.
- review_scores_rating The average overall review score rating.

- review_scores_accuracy The average review score rating for how accurate the listing description and photos matched the guests' experiences.
- review_scores_cleanliness The average review score rating for how satisfied the guests are with the cleanliness of the listing.
- review_scores_checkin The average review score rating for how easy it was for the guests to check in.
- review_scores_communication The average review score rating for how easy it was for the guests to communicate with the host.
- review_scores_location The average review score rating for how satisfied the guests are with the listing's location, which takes into account factors such as convenience, safety, and proximity to points of interest.
- review_scores_value The average review score rating for whether the guest considered the listing as a value given the amount paid to book the listing.
- license This field indicates whether the host has provided a licensing number for their listing, which may be required by local regulations for short-term rentals.
- instant_bookable A Boolean to indicate whether guests can book the listing instantly without waiting for the host's approval.
- calculated_host_listings_count The field represents the total number of active listings the host has on Airbnb.
- calculated_host_listings_count_entire_homes Field represents the total number of active listings the host has on Airbnb that are an entire home or apartment.
- calculated_host_listings_count_private_rooms The field represents the total number
 of active listings the host has on Airbnb that are private rooms.
- calculated_host_listings_count_shared_rooms The field represents the total number of active listings the host has on Airbnb that are shared rooms.
- reviews per month An average number of reviews the listing receives per month.

Listings Data Dictionary:

- id Unique id number associated with a listing.
- name Name of the listing.
- host id Unique identifier associated with the host.
- host name Name of the listing's host.
- neighbourhood_group When applicable, it groups neighborhoods into larger districts, areas, or boroughs to provide a more macro-level view of where listings are in a standardized format.
- neighbourhood This field represents a standardized version of the neighborhood names for where the listing is located.
- latitude The listing's latitude coordinates.
- longitude The listing's longitude coordinates.
- room type A categorical variable that indicates the listing's offered room type.
- price The field contains the cost to rent the listing per night.

- minimum_nights The minimum number of nights a guest must book for a stay at the listed property.
- number_of_reviews The field represents the listing's total number of reviews since the listing became available on the platform.
- last review A date field to represent the most recent review the listing received.
- reviews_per_month An average number of reviews the listing receives per month.
- calculated_host_listings_count Field represents the total number of active listings the host has on Airbnb.
- availability_365 Field represents the number of days the listing is available for booking in the next 365 days from the current date.
- number_of_reviews_ltm Field represents the listing's total number of reviews received within the last twelve months (ltm).
- license This field indicates whether the host has provided a licensing number for their listing, which may be required by local regulations for short-term rentals.

Calendar Data Dictionary:

- listing_id The unique identifier for each Airbnb listing.
- date The specific date for which the listing's availability and price information are provided.
- available Indicates whether the listing is available ('f' for false, meaning not available) on the given date.
- price The original listed price for the property on the specified date, before any adjustments.
- adjusted_price The price for the property on the specified date after adjustments, if any.
- minimum_nights The minimum number of nights a guest must stay if booking for the given date.
- maximum_nights The maximum number of nights a guest can stay when booking for the given date.

Neighbourhood Data Dictionary:

- neighbourhood_group This column is intended to categorize listings into broader administrative or geographical regions but appears to be missing or not applicable in some datasets. It could refer to a higher-level grouping of areas, such as boroughs or districts in a large city.
- neighbourhood Identifies the specific neighbourhood or district where the listing is located, offering a more detailed geographic classification than the neighbourhood_group. It helps users to understand the precise area of each listing.

Neighbourhoods.geojson Data Dictionary:

 type – This indicates the type of GeoJSON object. The root type is "FeatureCollection", which means this object is a collection of features.

- features This is an array of Feature objects. Each feature represents a geographic feature and contains its own set of properties and geometry.
- For each object in the features array:
 - o type Specifies the type of GeoJSON object, in this case, "Feature".
 - o geometry Contains the geographic data of the feature.
 - type The type of geometry, which can be one of several types such as "Point", "LineString", "Polygon", or "MultiPolygon".
 - coordinates An array of points that define the geometry according to the geometry type. For "MultiPolygon", this is an array of polygons, where each polygon is defined by an array of linear rings (an array of points). The first linear ring represents the outer boundary of the polygon, and any subsequent rings represent holes in the polygon.
 - properties An object containing properties of the feature. This can include any custom data associated with the feature.
 - neighbourhood: The name of the neighborhood.
 - neighbourhood_group: This is null in all provided features, which could mean that the neighborhood does not belong to a larger group or this information is not available.

Reviews Detailed Data Dictionary:

- listing id A unique identifier for the listing on the platform.
- id A unique identifier for the review itself. This distinguishes each review from others, even for the same listing.
- date The date when the review was posted. This appears to be in the format MM/DD/YY.
- reviewer_id A unique identifier for the user who wrote the review. This helps in identifying and possibly tracking the review history of the user across different listings.
- reviewer_name The name of the user who posted the review. It provides a human-readable identification for the reviewer, but names might not be unique.
- comments The textual content of the review written by the user. This field contains the reviewer's thoughts, experiences, and opinions about their stay at the listing. It may include descriptions of the property, interactions with the host, and any other relevant information that the reviewer wishes to share.

Reviews Data Dictionary:

- listing_id A unique identifier for each listing on the platform.
- date The date when the review was posted. The format appears to be MM/DD/YY