# Host Toolkit

* Our Algorithm to predict the expected revenue increase when a suggested amenity is added, was based on understanding the average price for each amenity per listing per city.
* First we take the average price of the listings that exist for each current city in the database and then divide that by the number of beds, number of guests, number of amenities, number of bedrooms and number of bathrooms; this was done to emphasize that our prediction algorithm depended on the average value of the listing that a guest can access.
* Then we took the average price of each amenity for a specific city.
* Then we take the average price of each amenity for each listing from each specific city, using the average price for listing and the average price for each amenity
* Then when a user from a specific city adds a listing, if it doesn’t contain a certain amenity we suggest the amenity and the average price for that amenity for that specific city as the revenue increase.