

# ALBERET EATHE

**Alberet** is an enthusiastic dragon trainer organizing dragon „fights” – calm down, this is just a sport! His **goal** is to reach as many spectators as possible, and make a decent profit (1% of the folks will visit the show eventually and will pay an entry fee of 1).



**Regression task:** Due to a recent update in Westeros-Airbnb's pricing system and a temporary data synchronization issue, the prices for some of the listings are currently unavailable. (This is the hold-out dataset.) Alberet has still got all information about these airbnbs except the price. Keeping dragons costs 250. Alberet is interested in these locations as there could be a number of new fans of the sport everywhere. Can he find a good location within these listings (with a backyard and iron as amenities) cheap enough, that visiting the city worth it? Alberet only wants to visit the city, if he can generate profit (the revenue from tickets is greater than the cost of keeping dragons + the airbnb's price). Can you find a location in the hold-out dataset for Alberet to stay?

**Question 1:** Which regions have the most listings with backyards, so they are suitable for dragon training (top 5)? (*Explanation:* Alberet needs to identify cities that have ample space for training dragons, the apartment needs to have a backyard.)

**Question 2:** Which city has the lowest and highest average prices of Airbnb listings in regions with the most listings with backyards? (*Explanation:* He needs to know accommodation costs in these potential training hubs. It can also help him decide what kind of audience he wants to target.)

**Question 3** Which cities have the most positive reviews for Airbnbs with backyards? (*Explanation:* Positive reviews can help ensure a pleasant experience for Alberet and his team. It can also help in choosing his target audience.)

**Question 4:** How many suitable flats are there per city (has a backyard and offers an iron, to keep the beasts warm)?

**WDYT:** As a tourism official, what factors would you consider to select the locations for a Dragon Fight World Championship?