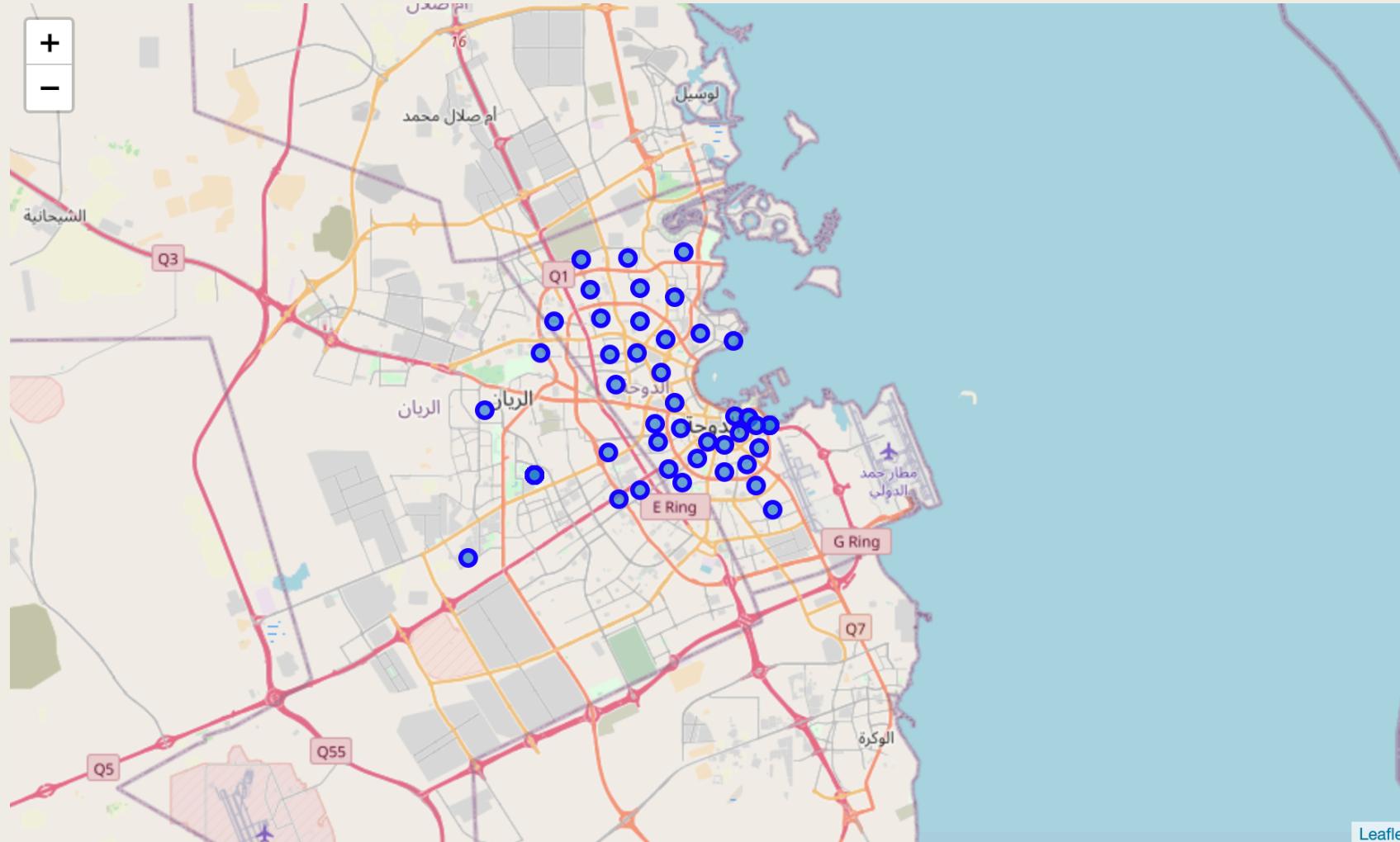


# RECOMMENDING PLACES TO STAY IN DOHA, QATAR

Applied Capstone Project  
IBM Data Science  
Noora Al-Mana

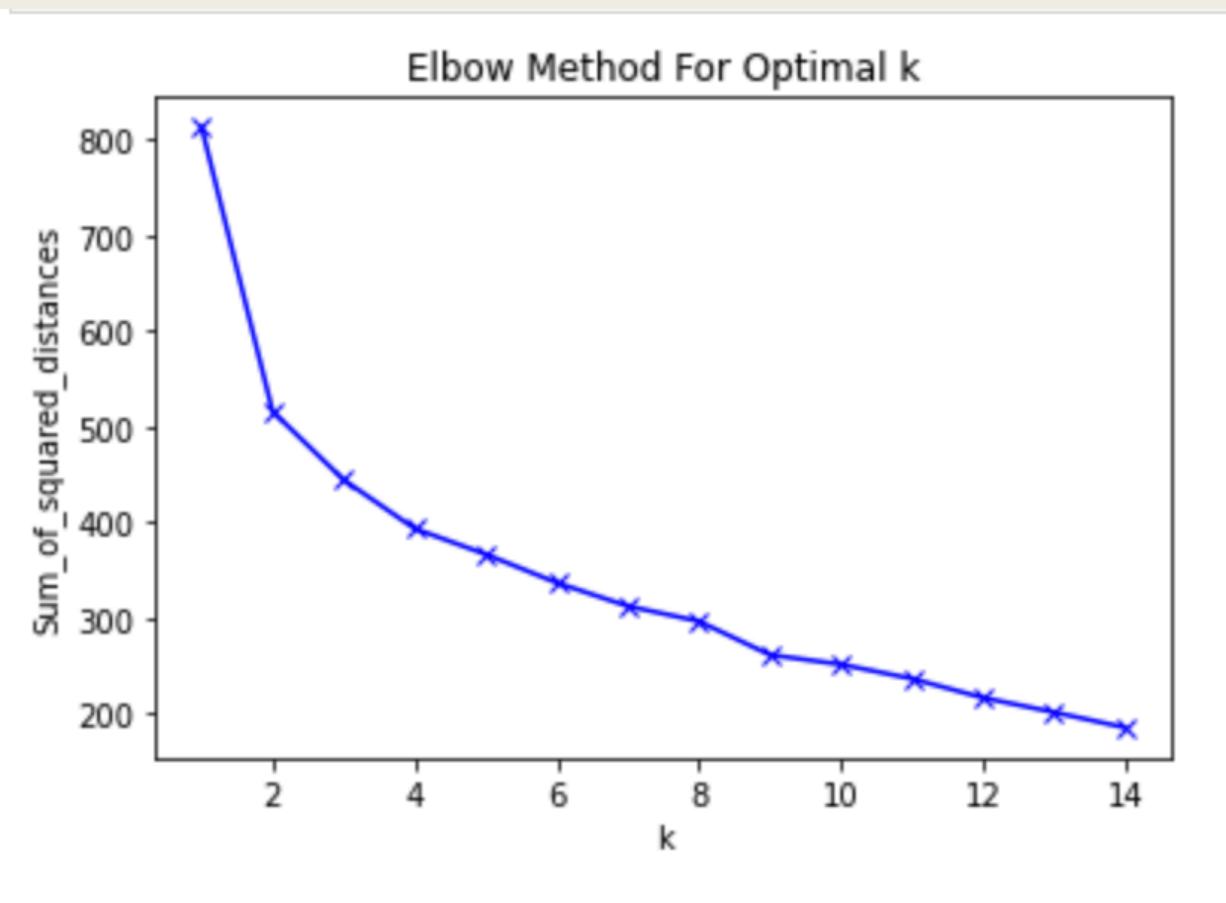
# Zones In Qatar



There are 70 zones  
in the city of Doha,  
Qatar.

# Clustering Zones Based on Similarities

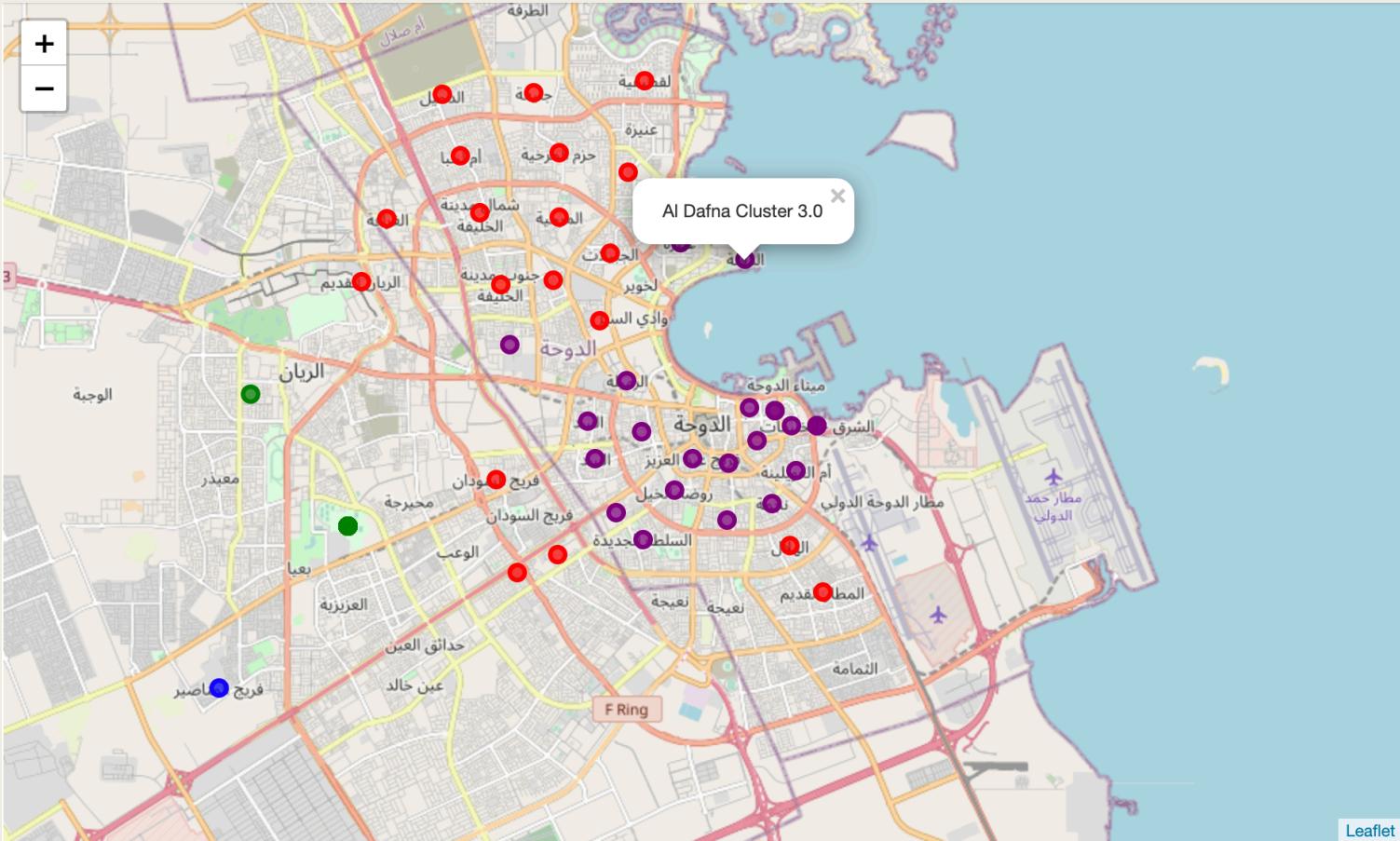
## Elbow Method for Optimal K



Although it is ambiguous, the optimal number of clusters is  $k = 4$ .

We will cluster the zones of Qatar into 4 clusters.

# K-Means Clustering



Clusters 0 (Green) and 1 (Blue) are very suburban and are far away from the city.

Cluster 2 (Red) is the biggest and consists of many cafes, restaurants, and shopping malls, while being very residential with not many hotels.

Cluster 3 (Purple) is in the city, has many hotels, and a diverse set of restaurants and eateries.

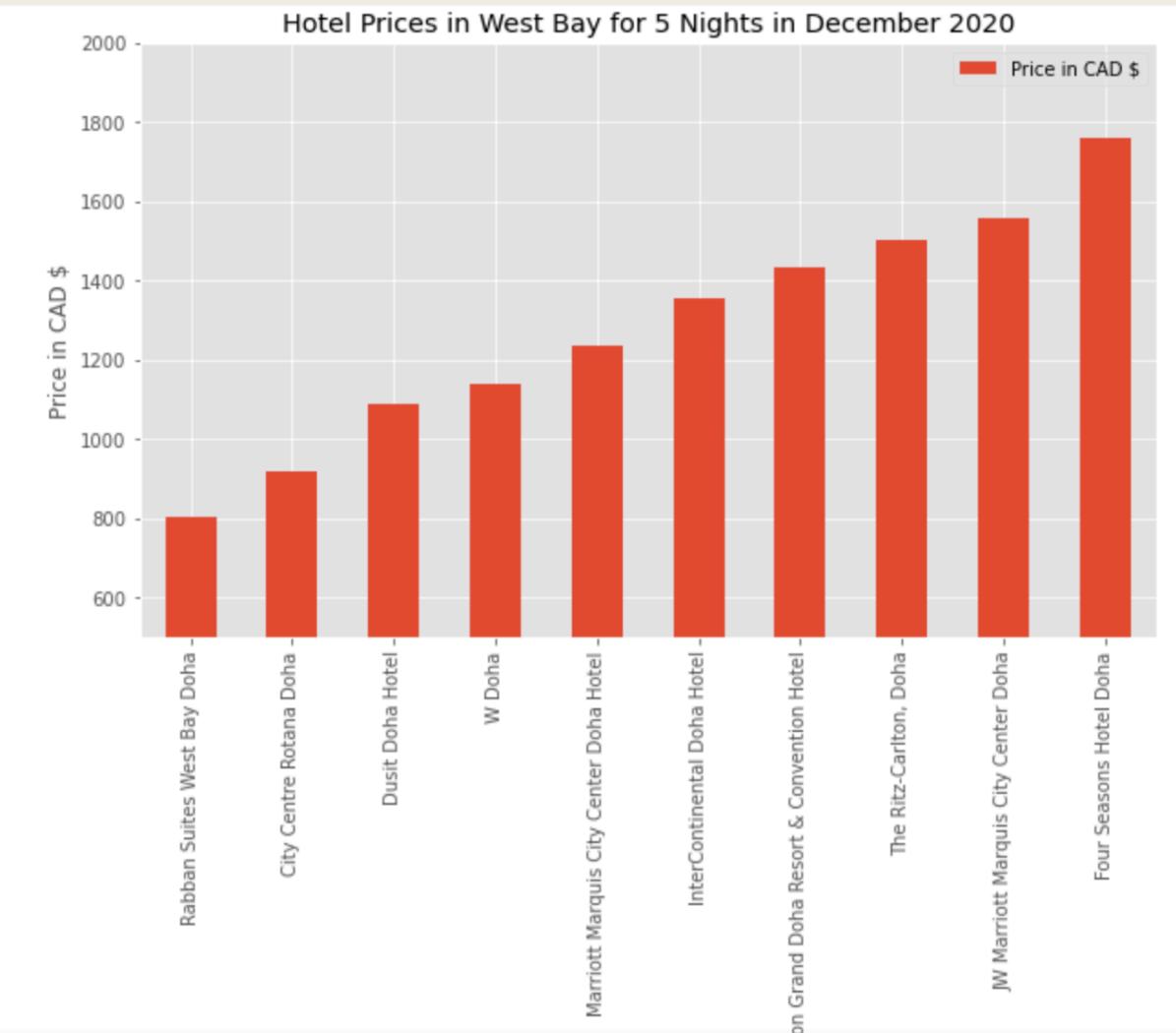
# Choosing a Zone To Stay In

- Now that I have a bit more of an understanding of the layout of the city, I would like to stay in a hotel in **Cluster 3** to experience the luxury and diversity in Doha.
- Moreover, I also would like to be near the beach to take advantage of the hot weather in the area.
- Hence, **Al Dafna** (also commonly known as **West Bay** by the locals) is my ideal area to stay in during my visit.

# Scraping 5 Star Hotels In West Bay From Booking.com

	Hotel	Stars	Rating	Price in CAD \$	Room Type	Link
0	The Ritz-Carlton, Doha	5-star hotel	8.7	1505.0	Deluxe King Room	<a href="https://www.booking.com/hotel/qa/the-ritz-carlton-doha.en.html">https://www.booking.com/hotel/qa/the-ritz-carlton-doha.en.html</a>
1	Four Seasons Hotel Doha	5-star hotel	8.9	1762.0	Deluxe King Room with City View	<a href="https://www.booking.com/hotel/qa/four-seasons-hotel-doha.en.html">https://www.booking.com/hotel/qa/four-seasons-hotel-doha.en.html</a>
2	Sheraton Grand Doha Resort & Convention Hotel	5 stars	8.9	1433.0	Deluxe Twin Room	<a href="https://www.booking.com/hotel/qa/sheraton-doha.en.html">https://www.booking.com/hotel/qa/sheraton-doha.en.html</a>
3	InterContinental Doha Hotel	5-star hotel	8.8	1355.0	Superior King Room with City View	<a href="https://www.booking.com/hotel/qa/intercontinental-doha.en.html">https://www.booking.com/hotel/qa/intercontinental-doha.en.html</a>
4	Rabban Suites West Bay Doha	5-star hotel	8.7	806.0	Deluxe Room	<a href="https://www.booking.com/hotel/qa/fraser-suites-west-bay-doha.en.html">https://www.booking.com/hotel/qa/fraser-suites-west-bay-doha.en.html</a>
5	W Doha	5-star hotel	8.9	1139.0	Spectacular, Queen Room, Guest Room, 2 Double ...	<a href="https://www.booking.com/hotel/qa/w-doha-qatar.en.html">https://www.booking.com/hotel/qa/w-doha-qatar.en.html</a>
6	JW Marriott Marquis City Center Doha	5-star hotel	8.8	1557.0	Deluxe King Room, Guest room, 1 King	<a href="https://www.booking.com/hotel/qa/jw-marriott-marquis-city-center-doha.en.html">https://www.booking.com/hotel/qa/jw-marriott-marquis-city-center-doha.en.html</a>
7	City Centre Rotana Doha	5-star hotel	8.8	918.0	King Classic Room	<a href="https://www.booking.com/hotel/qa/city-centre-rotana-doha.en.html">https://www.booking.com/hotel/qa/city-centre-rotana-doha.en.html</a>
8	Marriott Marquis City Center Doha Hotel	5-star hotel	8.8	1234.0	Deluxe Room, Guest room, 1 King	<a href="https://www.booking.com/hotel/qa/marriott-marquis-city-center-doha.en.html">https://www.booking.com/hotel/qa/marriott-marquis-city-center-doha.en.html</a>
9	Dusit Doha Hotel	5-star hotel	9.0	1091.0	Superior King Room	<a href="https://www.booking.com/hotel/qa/dusit-doha.en.html">https://www.booking.com/hotel/qa/dusit-doha.en.html</a>

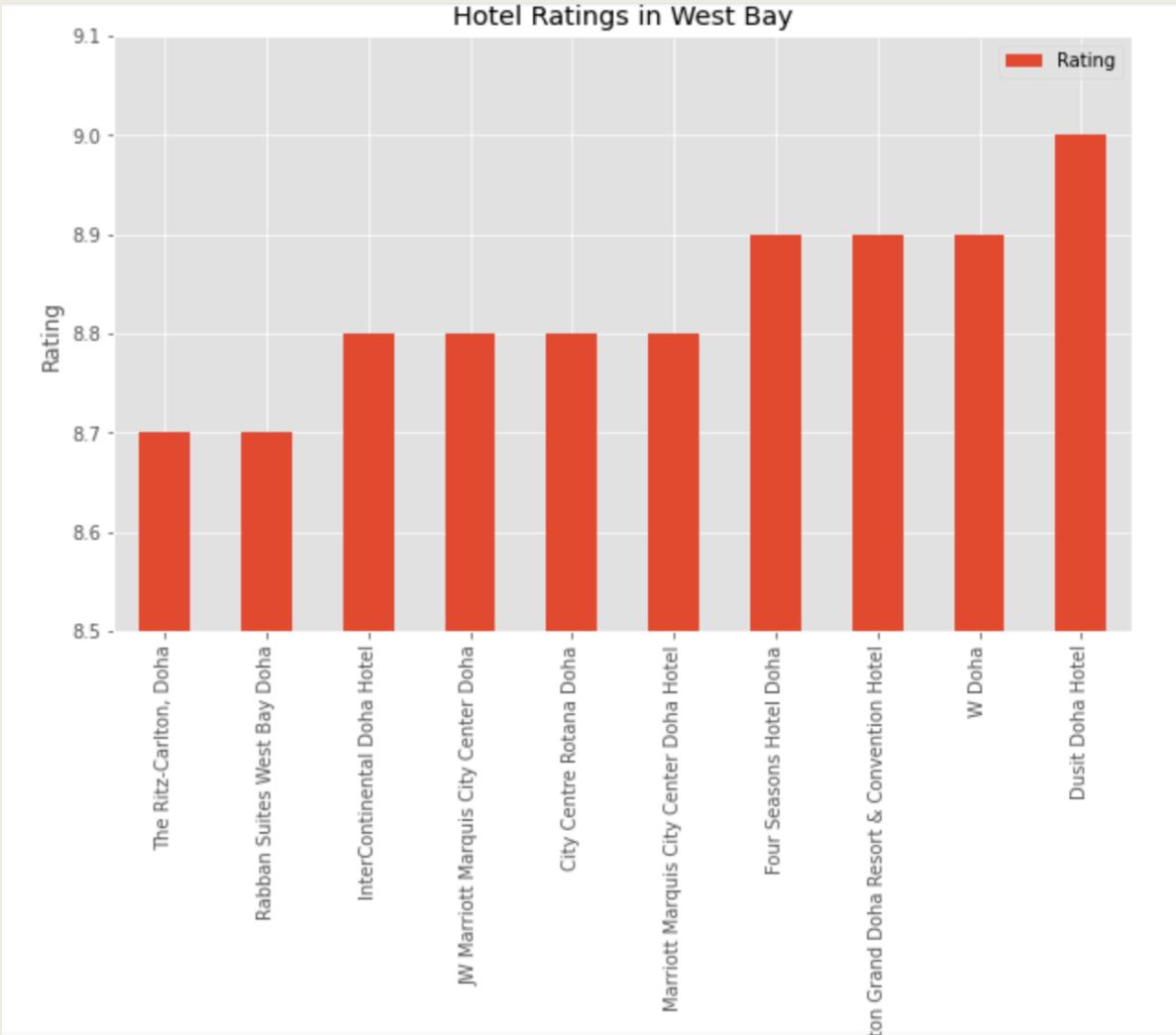
# Prices of Top 10 Hotels



The average price for a 5-night stay in a 5-star hotel in West Bay in December is CAD \$1280.

The most expensive hotel is The Four Seasons.

# Ratings of Top 10 Hotels



The highest rated 5-star hotel in West Bay is Dusit Doha Hotel with a 9.0

# Top 3 Hotel Choices

Hotel	Stars	Rating	Price in CAD \$	Room Type
Four Seasons Hotel Doha	5-star hotel	8.9	1762.0	Deluxe King Room with City View
W Doha	5-star hotel	8.9	1139.0	Spectacular, Queen Room, Guest Room, 2 Double ...
Dusit Doha Hotel	5-star hotel	9.0	1091.0	Superior King Room

# Top 3 Hotels Mapped



The W Hotel is far from West Bay so it is not ideal for me.

The remaining two are both great options however, The Four Seasons is the best choice in terms of luxury, as well as being directly on the beach.