Introduction

Islamabadis the [capital city](https://en.wikipedia.org/wiki/Capital_city) of [Pakistan](https://en.wikipedia.org/wiki/Pakistan), and is federally administered as part of the [Islamabad Capital Territory](https://en.wikipedia.org/wiki/Islamabad_Capital_Territory). Islamabad is the [ninth largest](https://en.wikipedia.org/wiki/List_of_most_populous_cities_in_Pakistan) city in [Pakistan](https://en.wikipedia.org/wiki/Pakistan), while the larger [Islamabad-Rawalpindi metropolitan area](https://en.wikipedia.org/wiki/Islamabad-Rawalpindi_metropolitan_area) is the country's [fourth largest](https://en.wikipedia.org/wiki/List_of_metropolitan_areas_in_Pakistan) with a population of about 3.1 million.

Built as a [planned city](https://en.wikipedia.org/wiki/Planned_city) in the 1960s to replace [Karachi](https://en.wikipedia.org/wiki/Karachi) as Pakistan's capital, Islamabad is noted for its high standards of living, safety, and abundant greenery. The city is the political seat of Pakistan and local government setup is run by the [Islamabad Metropolitan Corporation](https://en.wikipedia.org/wiki/Islamabad_Metropolitan_Corporation), supported by the [Capital Development Authority](https://en.wikipedia.org/wiki/Capital_Development_Authority_(Islamabad)) (CDA). Islamabad is located in the [Pothohar Plateau](https://en.wikipedia.org/wiki/Pothohar_Plateau) in the north-eastern part of the country, between [Rawalpindi District](https://en.wikipedia.org/wiki/Rawalpindi_District) and the [Margalla Hills National Park](https://en.wikipedia.org/wiki/Margalla_Hills_National_Park) to the north. The region has historically been a part of the crossroads of [Punjab](https://en.wikipedia.org/wiki/Punjab,_Pakistan) and [Khyber Pakhtunkhwa](https://en.wikipedia.org/wiki/Khyber_Pakhtunkhwa) with the [Margalla Pass](https://en.wikipedia.org/wiki/Margalla_Pass) acting as the gateway between the two regions. The city's master-plan, designed by Greek architect [Constantinos Apostolou Doxiadis](https://en.wikipedia.org/wiki/Constantinos_Apostolou_Doxiadis), divides the city into eight zones, including administrative, diplomatic enclave, residential areas, educational sectors, industrial sectors, commercial areas, and rural and green areas. The city is known for the presence of several [parks](https://en.wikipedia.org/wiki/Park) and forests, including the [Margalla Hills National Park](https://en.wikipedia.org/wiki/Margalla_Hills_National_Park) and [Shakarparian Park](https://en.wikipedia.org/wiki/Shakarparian). The city is home to several landmarks, including the [Faisal Mosque](https://en.wikipedia.org/wiki/Faisal_Mosque), the [largest mosque](https://en.wikipedia.org/wiki/List_of_mosques_in_Pakistan) in South Asia and the [fourth largest](https://en.wikipedia.org/wiki/List_of_largest_mosques) in the world. Other landmarks include the [Pakistan's National Monument](https://en.wikipedia.org/wiki/Pakistan_Monument) and [Democracy Square](https://en.wikipedia.org/wiki/D-Chowk_(Islamabad)).

This project aims to identify popular neighbourhoods and explore its venues in Islamabad, Pakistan which is based on their overall rating, its reviews and also its price ranges using Foursquare API and cluster the neighbourhoods and venues to help visitors select the restaurants that suit them the best.

Whenever a user is visiting a city, they start looking for places to visit during their stay. They primarily look for places based on the venue ratings across all venues and the average prices such that the locations fit in their budget. Here, we'll identify places that are fit for various individuals based on the information collected from the API and Data Science. Once we have the plot neighbourhoods with their venues, any company can launch an application using the same data and suggest users such information.