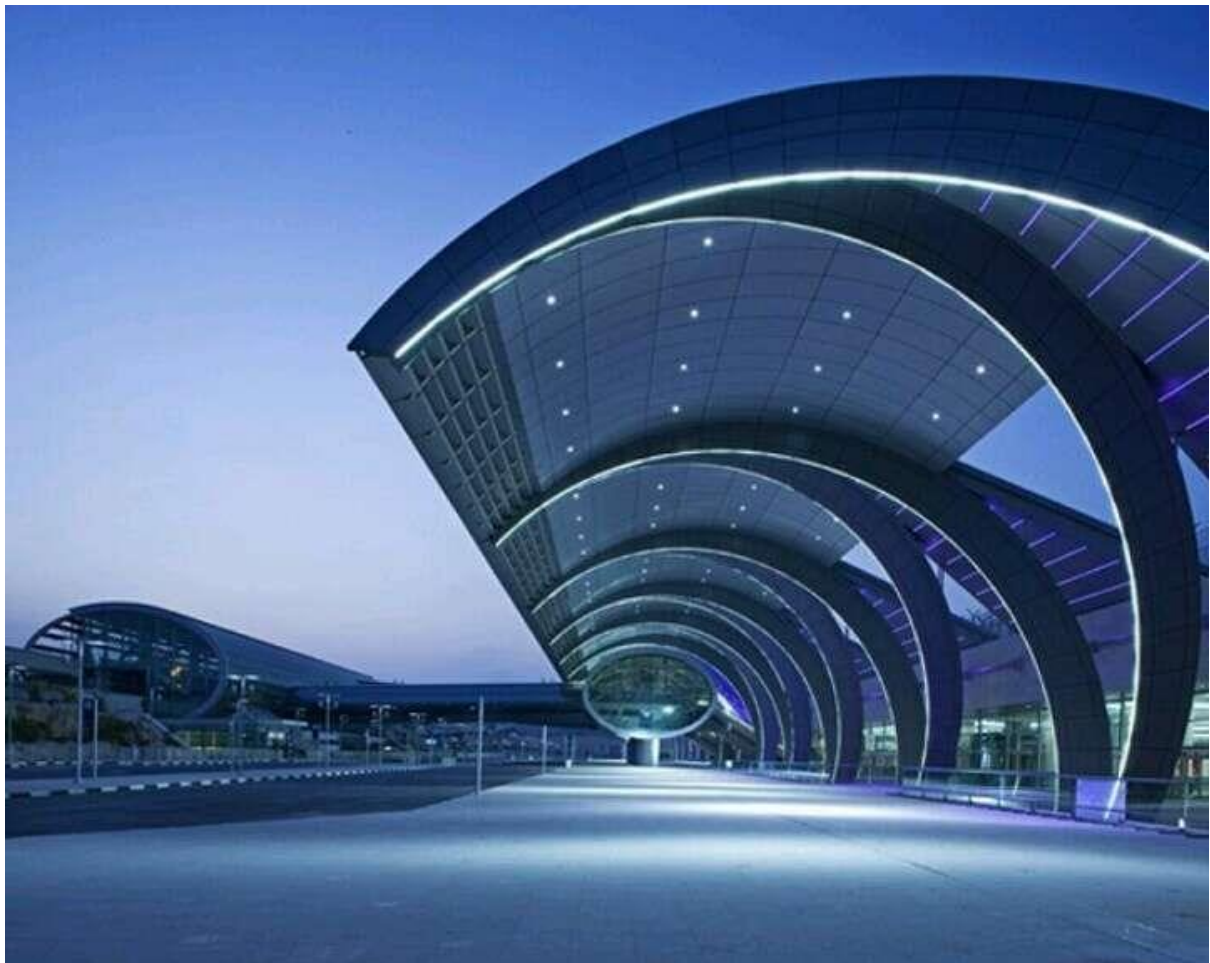


# CLUSTERING OF BUSIEST INTERNATIONAL AIRPORTS IN THE WORLD

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## 1. Introduction & Background

It has always been the dream of mankind from time immemorial to fly in the sky like the birds do. Umpteen number of unsuccessful attempts had been made by humanity in this quest upto the very beginning of 20<sup>th</sup> century. Finally in 1903 two American brothers made history when they flew over North Carolina sky first time in the history of mankind.



*Figure 1: First flight of the Wright Flyer, December 17, 1903. (Pic courtesy Wikipedia)*

Up until this date fascination of flying in the sky has not died but only has increased. The fact that is clearly established by the World Air Transport Statistics, 2018 by IATA. According to report, since 2004 the revenue growth of the airlines has outpaced world GDP continuously. Since the people are flying too frequently airports are not just the places to catch flight anymore. Airports have become more of a micro city offering all types of facilities & services that one can imagine and need. These facilities and services not only to promote businesses but also are necessary as many a times one has to spend a considerable amount of time on airport due to procedural requirements, non-availability of direct flight to intended destination etc.

Foursquare is an online platform that provides plethora of services including details about places of interest within a specified distance of a geographic location. As of the date of writing this article there were 941 different categories of places of interest covered by Foursquare. This huge information when combined with the airports data may reveal useful information for the stakeholders.

**1.1. Target audience**

In view of above it is quite useful from a commuter's point of view to have an idea that which airports in the world are likely to have the facilities he or she requires while at the airport. This may help people to choose from various flights options available to them. On the other side it may help business owners and multinational corporations to decide whether they should choose one airport or the other for their next store.

**1.2. Problem statement**

To classify busiest international airports of the worlds on the basis of certain set of establishments/ facilities/ services/ places of interest using foursquare APIs and any other relevant data.