**Hotels based on Tourist sites proximity**

1. **Introduction**
   1. **Business Problem**

Lima is the capital of Peru, a country known for its rich culture, its beautiful beaches, tourist spots, and delicious cuisine. The capital has many tourist places that many people, including its own citizens, do not know. That is why I decided to focus my project in Lima, Peru. The main objective is to focus on at least 3 tourist places, and find the best hotels based on reputation and proximity to the place.

* 1. **Interest**

With the global pandemic, the Tourism sector is suffering in many countries, so I think it is important give the tourists a safe experience.

1. **Data acquisition and cleaning**
   1. **Data Sources**

The data will be obtained mainly from Foursquare, I will use the information they have from the hotels around the area. I'll use features such as location.formattedAddress,location.distancento and location.city determine the safest hotels for tourists.Also, I'll be using information from the INEI, to extract data from the most visited turist sites of every district in Lima.

* 1. **Data Cleaning**

This is a simple project , so the data cleaning is minimal

1. **Exploratory Data Analysis**

With the data extracted from the INEI, I decided to work with the top three most visited in Lima, Peru in the last three years.As we can see, in the gragh below these places are *Museo Nacional de Arqueología e Historia del Perú , Museo de Sitio y Centro Arqueológico Pucllana and Zona Arqueologica Pachacamac.*

**Gráfico, Gráfico de barras, Histograma

Descripción generada automáticamente**

1. **Methodology**

I’ll be using foursquare to get info on hotels near this tourist sites. I’m interested in venues in 'hotel' category, they have to be at least 2000 meters from each site and should have good reviews

1. **Conclusions**

As we can observe in the notebook, the *Zona Arqueologica Pachacamacdoesn’t* have many hotels near by, this could be a great business opportunity for some people. Meanwhile, the others two sites have plenty of hotels near by, for different budgets.