# **Hotels and Restaurants analysis in Capital of Uttarakhand**

**( Dehradun )**

**MAYANK BHANDARI**

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**1. INTRODUCTION**

**1.1 Background**

**Dehradun , the capital city of Uttarakhand is also referred to as one of the most diverse city of India , and it’s because of the people who live here , from Hindu to Muslims , Sikhs to Christians , Jain , Parsi and many more. This diversity is also very clear from the food stuffs available to eat . As Uttarakhand is famous for the hill stations and religious spots in here , so it’s obvious that not only tourists but also as spiritually it holds a high position.**

**1.2 Problem**

**The problem is to analyze the hotels , restaurants and food parlors available at a particular location in Dehradun. Analyze here means determining the quality, rating , total rating ( idea of popularity of the spot) etc.**

**1.3 Interest**

**The interest is not a single fold , but it strikes a number of things . Let it understand a little.**

If we talk as per tourism point of view, then of course it matters a lot. Clearly , if I talk about me then the thing which matters to me the most during a trip is what are we going to stay and whether we will get the desired food stuffs available in there or not. Hence, this is important as per tourism point of view.

Again if we talk about investors’ and small businessmen, who are interested in opening hotels , restaurants and food parlors get an insight of the competition to face at a particular location and what is the rating of the hotels and restaurants already available at the given location.

It’s always good to take a home somewhere near a location having sufficient food services available if you are single :) , or perhaps you are a busy person or busy family , who loves to order food rather than cooking and serving.

**2. Data acquisition and cleaning**

**2.1 Data Sources**

The data collection for this project is done by using “Foursquare API” i.e <https://developer.foursquare.com/> and “Google API” i.e <https://cloud.google.com/maps-platform/>. Collectively the data is used for analyzing the restaurants and hotels.

**2.2 Data Cleaning and Feature Selection**

Clearly the data collected from the 2 API’s are used in combination to produce a single data table and then using this data table to select the piece of information to be taken as parameters for analysis. We after analyzing the data found out that we have to make the study understandable and reasonable, so we remove unnecessary information so as to make the study of data easy.

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| **Kept Features Dropping Features Reason for dropping features**  **Total Rating Geometry, view port The features like geometry**  **Latitude opening hours, reference, view port, opening and closing**  **Longitude type, vicinity, hours are basically of no interest.**  **Rating id Other features also seem useless.**  **Venue Name** |