1. Report Contents

[1 Report Contents 1](#__RefHeading___Toc58_777593657)

[2 Introduction 2](#__RefHeading___Toc592_1769055570)

[2.2 Background 2](#__RefHeading___Toc600_1769055570)

[2.3 Problem 2](#__RefHeading___Toc372_777593657)

[2.4 Stakeholders 2](#__RefHeading___Toc374_777593657)

[3 Data Sourcing, Understanding and Wrangling 2](#__RefHeading___Toc594_1769055570)

[3.2 Data API 2](#__RefHeading___Toc374_7775936571)

[3.3 Data Understanding 3](#__RefHeading___Toc374_77759365711)

[3.4 Data Wrangling 3](#__RefHeading___Toc374_77759365712)

1. Introduction

This capstone project explores the domain of recommending “best-matched nearby” venues based on user’s and other people’s interests. We will be analyzing venue data and recommending the best venues to the user based on his geogrpahical location.

## **Background**

To set a background for the discussion, as tourists we frequently visit new cities. We want to visit the most popular, spectacular and enjoyable destinations around us in a short span of time. No one wants to miss the best venues around. We also usually have only few days in a city and need to manage our time well.

This is our problem domain.

## **Problem**

While siteseeing the main task is of chalking out a plan for visiting tourist destinations in a new city. The problem we will be tackling is selecting the best venues to visit when a user is at a particular venue in a city. The various factors that will affect our decision are proximity to a venue, category of the venue, day of visit, our interests etc.

## **Stakeholders**

The stakeholders of this project would include tourists interested in determining the next best venue to visit from a particular venue. Tourists can also use this project to determine which venues other people have visited and liked and hence they will prefer over other venues in the vicinity. The other interested parties would be websites wishing to display possible alternative iteniraries for touring a city. Schools can use the project to setup a 1-day trip for the children.

1. **Data Sourcing, Understanding and Wrangling**

The primary data source for this project is the location data provided by the provider FourSquare. We will access the FourSquare REST APIs to get venue and other details. Following sections look at the APIs we will use and understand the data they return.

## **Data API**

The important FourSquare API for this project are listed below :

* Get Next Venues : GET : XXX/v2/venues/VENUE\_ID/nextvenues
* Get Next Venues : GET : XXX/v2/venues/VENUE\_ID/nextvenues

## **Data Understanding**

The stakeholders of this project would

## **Data Wrangling**

<Week 2 onwards ......>

# 