**Final Project**

**Topic: Azure Search**

**Problem Statement:**

Building the search page in traditional ways might not be as effective or compelling as in today’s age, where user wants the search to be multi-functional and multi-featured. For example, user might like to see suggestions based on few keywords, see results based on 5-mile radiuses, or get results based on his/her preference and relevance, and desires to get those results back fast. On top of that, user might want to be able to properly navigate between search results and be able to narrow down those results applying different filters. This is when Azure Search Service come to play to address all those factors to provide rich and great user search experience.

As my final project, I have chosen to use “Azure Search Service” to build a search engine that lets user search for the restaurants by their name, type or zip code.

**Overview of Azure Search Service:**

Azure Search is a cloud based search-as-a-service solution with a powerful search experience over the content in web, mobile and applications. Hosted in Microsoft’s Azure cloud platform, it provides an ability to search with queries that can process language naturally (understands what user might be asking for), support geo search (allows user to search for geographic areas based on radius and coordinates), and give out accurate search recommendations. It is easy to implement and can be configured to any apps developed in various programming languages (Android, iOS, Windows etc).

**High Level Steps:**

1. Create a Azure Search Service in the Azure Portal.
2. Create Azure SQL Database.
3. Load data into the table, and import it to Azure search.
4. Install Node.js.
5. Download sample code from GitHub.
6. Extract the code into VS Code editor and run npm commands.
7. Make changes to config file to point towards Azure Search Service and Azure Data Center.
8. Compile the code and run the search application.

**Data Source:**

Manually enter data about restaurants to Azure SQL Database.

**Hardware/OS used:**

Intel 2-core i5-6300U CPU 2.40GHz, 8 GB RAM, 64-bit Windows 7 OS

**Software and Tools used:**

Azure Portal, NodeJs, VSCode., CLI

**YouTube Links:**

2 Min:- <https://youtu.be/BaaeLt4cOe0>

15 Min:- <https://youtu.be/Fwynr6qPYrg>

**Github link:**

https://github.com/maha-shrestha/FinalProjectAzureSearch