**CS-6350.001- PROJECT PROPOSAL**

**BUSINESS RECOMMENDATION SYSTEM**

**By**

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1. **Introduction and problem description:**
2. Project Statement

To successfully build the Recommendation System for business.

1. Significance of the Project

While going to a restaurant/hotel, people requires rating information regarding how good that place is recommended by others. However, they generally do not have this type of data. One of the method of obtaining this information is using recommendation system.

1. Basic Approach

Based on current reviews and ratings, our system will recommend the best services available nearby based on the searched business categories such as restaurants, gas-stations, hotels, etc. We are going to use Yelp dataset for our project. There are two types of recommendation we are going to do:

1. First is to search a business based on specific keywords i.e good restaurant/gas station.
2. Second is search a business based on top ratings.
3. Technologies
4. Python: We have dataset in JSON format, we will convert it to CSV file with the help of Python.
5. R: We will remove unnecessary attributes using R.
6. Java
7. Apache Kafka

1. **Dataset Description:**

|  |  |  |  |
| --- | --- | --- | --- |
| **File** | **Rows** | **Size** | **Description** |
|  |  |  |  |
| Business | 229,222 | 32 MB | Information about business |
|  |  |  |  |
| User | 686,557 | 159 MB | About users |
|  |  |  |  |
| Review | 9,275,055 | 1.8 GB | Review given by users |
|  |  |  |  |
| Check-in | 61,050 | 14 MB | Timings |
|  |  |  |  |
| Tip | 667,238 | 79 MB | Derived from reviews |
|  |  |  |  |