**Capstone Project Submission**

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| **Team Member’s Name, Email and Contribution:** |
| **1. Kedar Vasantrao Patil**  Email:- [kedarpatil010@gmail.com](mailto:kedarpatil010@gmail.com)  Mob:- 9665576720  **Contribution:-**  1. Data Wrangling.  2. Exploring And Visualizing the data.  3. Text-Preprocessing- Removing punctuation, Removing stop words, Lemmatization  4. Sentiment Analysis   * MultinomialNB * Random Forest * XGBoost * SVM(Support Vector Machine)   5. LDA (Latent Dirichlet Allocation)  6. Clustering   * K-means Clustering * K-Means with PCA   7. Conclusion  8. Documentation  **2. Rohit Rajendra Pawar**  Email:-[rohitpawar2610@gmail.com](mailto:rohitpawar2610@gmail.com)  Mob:- 8390796333  **Contribution:-**  1. Data Wrangling.  2. Exploring And Visualizing the data.  3. Text pre-processing  4. Sentiment Analysis  5. Gaussian Naive Bayes Classifier  6. KMeans  7. LDA  8. XGBoost  9. Support Vector Classifier (SVC)  10. Comparison and conclusion  11. Documentation |
| Github Link:-  <https://github.com/Kedarpatil24/ZOMATO-RESTAURANT-CLUSTERING-AND-SENTIMENT-ANALYSIS> |
| Google Drive Link:-  <https://drive.google.com/drive/folders/1j_M5XQtxy0FRJqHnuxzJLsg3d3XqxuEy?usp=sharing> |
| **Summary**  Zomato is an Indian restaurant aggregator and food delivery start-up founded by Deepinder Goyal and Pankaj Chaddah in 2008. Zomato provides information, menus and user-reviews of restaurants, and also has food delivery options from partner restaurants in select cities.  India is quite famous for its diverse multi cuisine available in a large number of restaurants and hotel resorts, which is reminiscent of unity in diversity. The restaurant business in India is always evolving. More Indians are warming up to the idea of eating restaurant food whether by dining outside or getting food delivered. The growing number of restaurants in every state of India has been a motivation to inspect the data to get some insights, interesting facts and figures about the Indian food industry in each city. So, this project focuses on analyzing the Zomato restaurant data for each city in India.  The Project focuses on Customers and Company, you have to analyze the sentiments of the reviews given by the customer in the data and make some useful conclusions in the form of Visualizations. Also, cluster the zomato restaurants into different segments. The data is visualized as it becomes easy to analyze data in an instant. The Analysis also solves some of the business cases that can directly help the customers find the Best restaurant in their locality and for the company to grow up and work on the fields they are currently lagging in.  This could help in clustering the restaurants into segments. Also, the data has valuable information around cuisine and costs which can be used in cost vs. benefit analysis. |