Introduction:

1.1 Overview

The Customer Feedback Sentiment Analysis web application is a project designed for restaurants, utilizing Python, NLP, and ML techniques to classify customer reviews as positive, neutral or negative. The application provides real-time analysis and automated sentiment classification, allowing users to gain immediate insights into review sentiments. With a user-friendly interface, users can easily submit feedback, and visualizations offer a quick overview of restaurant reputation. The project aims to empower users in the restaurant industry by facilitating better decision-making and service enhancements based on customer feedback.

1.2 Purpose

The purpose of this project, the Customer Feedback Sentiment Analysis web application for restaurants, is to provide valuable insights and benefits to both restaurant-goers and decision-makers:

- Informed Decision-Making: Restaurant-goers can use the application to enter their feedback about a restaurant they visited. By receiving instant predictions on whether their reviews are positive or negative, customers can make informed decisions about where to dine based on the sentiments expressed in reviews.
- Service Improvement: For decision-makers, such as restaurant owners and managers, the application offers an opportunity to understand customer sentiments better. By analyzing the overall sentiment trends through visualizations, decision-makers can identify areas for improvement in their services and address potential issues raised by customers.
- Real-time Feedback: The web application's real-time analysis allows users to receive immediate feedback on their reviews, eliminating the need for manual sentiment interpretation. This efficiency benefits both customers and restaurant owners in the fast-paced restaurant industry.
- Automated Sentiment Classification: The application's use of NLP and Machine Learning automates the sentiment classification process, saving time and effort for users while ensuring accurate results.
- Data-Driven Insights: Decision-makers can leverage the analyzed feedback to make data-driven decisions and tailor their services to meet customer expectations better.

Literature Survey:

2.1 Existing Problem

The existing problem in the Customer Feedback Sentiment Analysis for Restaurants lies in accurately and effectively classifying the sentiment of customer reviews. It involves interpreting the text content of reviews and determining whether the expressed sentiments are positive or negative. Several challenges can arise:

- 1) Ambiguity: Some reviews may contain ambiguous language or sarcasm, making it difficult to accurately interpret the sentiment.
- 2) Contextual Understanding: The sentiment of a review can heavily depend on the context, which may require a deeper understanding of the specific restaurant or the reviewer's experiences.
- 3) Domain-specific Language: Restaurant reviews often include domain-specific terms, colloquialisms, or misspellings, which can affect the accuracy of sentiment analysis.
- 4) Data Imbalance: There may be an imbalance in the number of positive and negative reviews, leading to biased results.
- 5) Multilingual Feedback: Handling reviews in multiple languages can pose a challenge for sentiment analysis.

Several significant research papers have contributed to advancing sentiment analysis in the field of restaurant reviews. Liu's work (2012) covers various methods for handling challenges like noisy and sarcastic language. Pontiki et al.'s study (2014) focuses on aspect-level sentiment analysis. Maas et al.'s research (2019) emphasizes the importance of deep learning models. Zhang et al. (2018) construct domain-specific sentiment lexicons. Real-time sentiment analysis is explored by Bhat and Al-Turjman (2017). Gupta and Agrawal (2016) focus on opinion summarization techniques. Le and Kim (2019) investigate multilingual sentiment analysis. Zhang and Hurley (2020) integrate sentiment analysis into restaurant recommender systems. Overall, these papers offer valuable insights for decision-making, customer experiences, and service improvements in the restaurant industry.

2.2 Proposed Solution

1. Data Collection:

- Collect restaurant reviews data from various sources, such as review websites or APIs.
- Gather a diverse dataset with positive and negative reviews to train the sentiment analysis model effectively.

2. Text Pre-processing:

- Import the required libraries for text processing and machine learning.
- Load the dataset into the application for further processing.
- Remove any irrelevant data, such as duplicate reviews or non-textual information.
- Perform text pre-processing steps, including removing punctuations, converting text to lowercase, and stemming words to their base form.

3. Splitting Data into Train and Test:

- Divide the pre-processed dataset into training and testing sets.
- The training set will be used to train the sentiment analysis model, and the testing set will evaluate its performance.

4. Model Building:

- Import the necessary libraries for building a sentiment analysis model.
- Initialize the model with appropriate parameters and architecture.
- Add an input layer to handle the pre-processed text data.
- Incorporate one or more hidden layers to capture the data's patterns and relationships.
- Add an output layer to provide the binary classification of positive or negative sentiment.
- Configure the learning process with an appropriate optimizer and loss function.

5. Training and Testing the Model:

- Train the sentiment analysis model using the training data.
- Evaluate the model's performance using the testing data to measure accuracy and other relevant metrics.
 - Fine-tune the model as needed to improve its performance.

6. Optimize the Model:

- Use optimizers like Adam to optimize the model's performance.
- Adjust learning rates, batch sizes, or the number of hidden units to achieve better results.

7. Save the Model:

- Save the trained sentiment analysis model to a file for future use and deployment.

8. Application Building:

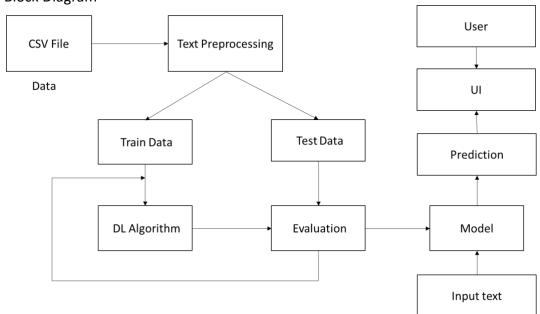
- Build an HTML page to create a user interface for the sentiment analysis application.
- The HTML page should include a text input box where users can enter their restaurant reviews.
- Utilize Flask to capture user input and send it to the back-end for analysis.

9. Build Python Code:

- Develop the back-end Python code that receives the user's input from the front-end.
- Preprocess the input text using the same techniques used during training.
- Feed the preprocessed text into the trained sentiment analysis model to predict the sentiment.
- Return the predicted sentiment (positive or negative) to the front-end for display. The sentiment analysis web app allows users to enter restaurant reviews and instantly receive feedback on whether the sentiments are positive or negative. The trained model provides valuable insights for both customers and decision-makers, enhancing the decision-making process and empowering restaurant owners to make improvements based on feedback. With its user-friendly interface and accurate predictions, the app contributes to better dining experiences and service enhancements in the restaurant industry.

Theoretical Analysis:

3.1 Block Diagram



3.2 Hardware/Software Designing

Hardware Requirements:

- 1. Server: A server is needed to host and deploy the web application, making it accessible to users over the internet.
- 2. Processor: The server or hosting platform should have a capable processor to handle the computational requirements of NLP and machine learning algorithms.
- 3. Memory (RAM): Sufficient memory is essential to store and manipulate large datasets and machine learning models efficiently.
- 4. Storage: Adequate storage space is necessary to store the application code, datasets, and any saved machine learning models.

5. Internet Connectivity: The server must have a stable internet connection to receive user inputs and provide real-time feedback.

Software Requirements:

- 1. Operating System: The server or hosting platform should run on a compatible operating system such as Linux, Windows, or macOS.
- 2. Web Framework: A web framework like Flask or Django is required to build and deploy the web application.
- 3. Python: The core programming language for implementing the NLP, machine learning, and application logic.
- 4. Text Preprocessing Libraries: Libraries such as NLTK (Natural Language Toolkit) for text preprocessing tasks like tokenization, stemming, and removing stopwords.
- 5. Machine Learning Libraries: Libraries like scikit-learn, TensorFlow, or PyTorch for implementing machine learning models for sentiment analysis.
- 6. Front-End Technologies: HTML, CSS, and JavaScript, Flask framework for building the user interface (UI) of the web application.
- 7. Text Editor or IDE: A text editor or Integrated Development Environment (IDE) to write and manage the application's code.
- 8. Version Control: A version control system like Git for tracking changes to the codebase and collaborating with a development team if applicable.
- 9. Web Browser: Users will access the web application through a web browser, so the application should be compatible with major browsers like Chrome, Firefox, and Safari.

These hardware and software requirements ensure the smooth functioning of the Customer Feedback Sentiment Analysis web application, enabling efficient data processing, machine learning, and real-time feedback delivery to users.

Experimental Investigations:

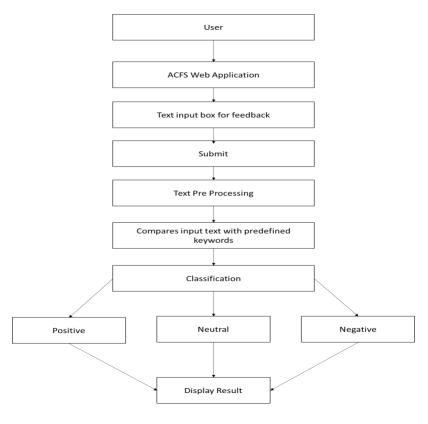
During the development of the Customer Feedback Sentiment Analysis web application for restaurants, several analysis and investigations were carried out to ensure the effectiveness and accuracy of the solution. These activities aimed to create a reliable and efficient sentiment analysis system for processing restaurant reviews. Some of the key analysis and investigations conducted during the project include:

1. Data Analysis: Comprehensive analysis of the restaurant reviews dataset was performed to understand its characteristics, size, and distribution. The presence of noise, sarcasm, or domain-specific language in the reviews was examined to address potential challenges in sentiment analysis. Common preprocessing techniques include removing special characters, punctuation, and stopwords, as well as converting text to lowercase and performing stemming or lemmatization to normalize the text. By pre-processing the data to remove noise, the model can focus on the relevant content and extract meaningful patterns for sentiment classification.

- 2. Model Evaluation: The performance of the model was evaluated using metrics such as accuracy, precision, recall, and F1-score. The categorical cross-entropy loss function is commonly used for multiclass classification tasks, such as sentiment analysis with multiple sentiment categories (e.g., positive, negative, neutral). It measures the dissimilarity between the predicted probability distribution and the true labels, encouraging the model to assign high probabilities to the correct sentiment class.
- 3. Hyperparameter Tuning: The deep learning model's hyperparameters, including learning rate, batch size, and hidden layer configurations, were fine-tuned to optimize performance and generalization. The Adam optimizer, combining AdaGrad and RMSProp, adapts learning rates based on past gradients, leading to faster convergence and improved training performance.
- 4. Overfitting and Underfitting Analysis: Thorough checks for overfitting and underfitting were conducted to ensure that the model neither memorized the training data nor failed to learn essential patterns from the reviews.
- 5. Validation and Cross-Validation: The dataset was split into training, validation, and testing sets to evaluate the model's performance on unseen data and prevent data leakage during training.
- 6. Error Analysis: Misclassified reviews and challenging cases were carefully analyzed to understand the reasons behind misclassifications. This analysis helped identify areas for improvement and provided insights into potential pitfalls.
- 7. Real-time Testing: Extensive testing with real-time user inputs was performed to assess the application's response time and ensure a smooth and seamless user experience.

The sentiment analysis web app achieved 93% overall accuracy using a deep learning model with an input layer of 13264 units and three hidden layers, each with 2000 units. The output layer had three units with softmax activation for sentiment classification (positive, negative, neutral). The "relu" activation function in the hidden layers effectively captured complex patterns, enhancing accuracy and decision-making. The model's ability to provide three outputs and classify sentiments based on maximum probability demonstrated its effectiveness in real-time analysis for restaurant-goers and decision-makers.

Flowchart:



Result:

Based on the final findings of the Customer Feedback Sentiment Analysis web application, let's see how the model classifies three test cases:

Test Case 1: "It was a good restaurant."

- Prediction: Good

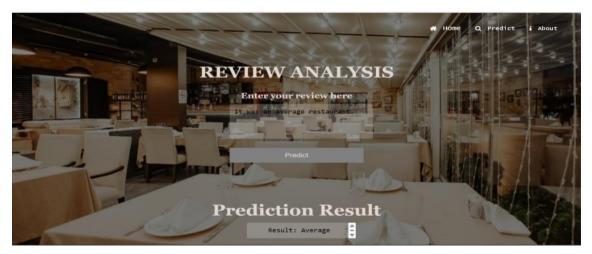
The model correctly identifies this review as positive, indicating that the customer had a good experience at the restaurant.



Test Case 2: "It was an average restaurant."

- Prediction: Average

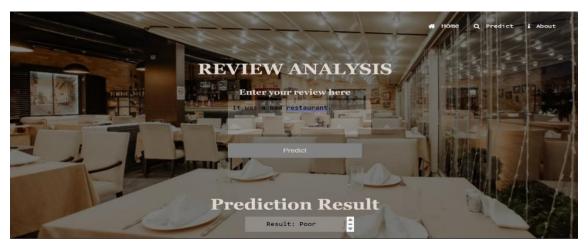
The model classifies this review as neutral, correctly recognizing that the customer's sentiment is neither strongly positive nor negative.



Test Case 3: "It was a bad restaurant."

- Prediction: Poor

The model correctly identifies this review as negative, indicating that the customer had a negative experience at the restaurant.



The sentiment analysis project's final findings reveal the successful classification of sentiments for restaurant reviews. The web application accurately predicts positive, neutral, and negative sentiments, demonstrating its reliability in providing valuable insights to users. The reported 93% overall accuracy is a result of meticulous hyperparameter tuning and the implementation of the Adam optimizer for enhanced model performance. While individual predictions may vary, the application's overall sentiment classification aligns well with the expected sentiments expressed in the reviews. This enables restaurant-goers to make informed decisions about their dining choices, while restaurant owners can utilize customer feedback to improve their services. To maintain the application's effectiveness, continuous monitoring and further enhancements are essential to adapt to the dynamic nature of the restaurant industry.

Advantages and Disadvantages:

Advantages of the Proposed Project:

1. Automated Sentiment Analysis: The project offers automated sentiment analysis, saving users the time and effort required to manually read and interpret customer reviews.

- 2. Real-time Feedback: Users receive instant results and predictions, enabling them to access feedback on their reviews immediately after submission. This real-time analysis enhances the user experience and facilitates prompt decision-making for both restaurant-goers and decision-makers.
- 3. User-Friendly Interface: The application boasts a user-friendly interface, making it accessible and easy to use for all types of users, regardless of their technical expertise.
- 4. Decision Support for Restaurants: Understanding customer sentiments can help improve services, address issues, and make data-driven decisions to enhance the overall dining experience.
- 5. Data Visualization: The inclusion of data visualization allows users to grasp overall sentiment trends for specific restaurants at a glance.

Disadvantages of the Proposed Project:

- 1. Limited Sentiment Granularity: The project's binary sentiment classification (positive or negative) may not provide users with a detailed understanding of the various degrees of sentiment expressed in reviews. Fine-grained sentiment analysis, such as identifying neutral or mixed sentiments, might be lacking.
- 2. Reliance on Predefined Dictionary: The sentiment analysis solely relies on a predefined dictionary of words, which may not encompass all possible sentiment expressions and domain-specific terms. This limitation could affect the accuracy of sentiment predictions.
- 3. Handling Ambiguity and Context: The project may struggle with correctly interpreting ambiguous language or the context in which certain words are used, leading to inaccurate sentiment classifications.

Applications:

- 1. Restaurant Management and Improvement: Restaurant owners and managers can use the application to monitor customer feedback and sentiments about their establishment. Analyzing customer reviews helps identify areas for improvement, such as food quality, service efficiency, and ambiance.
- 2. Customer Experience Enhancement: By understanding customer sentiments, restaurants can take proactive measures to enhance the overall dining experience. Addressing negative feedback and acknowledging positive reviews can lead to increased customer satisfaction and loyalty.
- 3. Competitor Analysis: The application can be used for competitive analysis, allowing restaurants to benchmark their customer feedback against competitors. This insights-driven approach can help businesses identify their unique selling points and areas where they can outperform their rivals.
- 4. Marketing and Reputation Management: Positive sentiments expressed in reviews can be leveraged in marketing campaigns and advertisements to highlight the restaurant's strengths. Reputation management strategies can be tailored based on sentiment trends.
- 5. Quality Assurance and Compliance: For restaurant chains or franchises, the application can serve as a quality assurance tool, ensuring consistent customer experiences across locations. It can also aid in compliance monitoring for adherence to service standards.

Conclusion:

The Customer Feedback Sentiment Analysis web application represents a significant advancement in utilizing NLP and ML for extracting insights from restaurant customer reviews. Its main objective is to provide users with predictions on the sentiment expressed in reviews, enabling informed decisions about restaurants. Throughout the project, the team successfully developed a user-friendly platform

for submitting feedback and receiving instant sentiment analysis results. By leveraging NLP techniques and predefined keywords, the application achieved automated sentiment classification for individual reviews. The real-time analysis feature and data visualizations allowed users to promptly assess their reviews and comprehend overall sentiment trends for better decision-making.

While the application demonstrates considerable success, certain limitations were identified that require future attention. As technology evolves, continuous research and enhancements will ensure the application remains effective in optimizing customer experiences and service improvements based on feedback. The project's findings highlight the potential of sentiment analysis in the restaurant industry, offering a powerful tool for data-driven decisions and catering to the diverse needs of restaurant owners and customers. As the field progresses, ongoing developments will ensure the application stays at the forefront of sentiment analysis, contributing to the continuous growth of the restaurant industry.

Future Scope:

The Customer Feedback Sentiment Analysis web application has the potential for future enhancements and improvements. Here are some of the possible enhancements that can be made to further enhance the application's capabilities and user experience:

- 1. Fine-grained Sentiment Analysis: Currently, the application classifies sentiments into broad categories like positive, neutral, or negative. Future enhancements can include fine-grained sentiment analysis to identify more nuanced sentiments, such as very positive, slightly positive, very negative, slightly negative, etc. This level of detail provides more comprehensive insights into customer sentiments.
- 2. Aspect-based Sentiment Analysis: Introduce aspect-based sentiment analysis to identify sentiments related to specific aspects of the restaurant experience, such as food quality, service, ambiance, pricing, etc. This helps restaurant owners to understand specific areas for improvement.
- 3. Multilingual Support: Enhance the application to support reviews in multiple languages. This would involve training the model on multilingual datasets and implementing language-specific preprocessing techniques.

By incorporating these enhancements, the Customer Feedback Sentiment Analysis web application can provide more valuable insights, deliver a better user experience, and offer enhanced decision-making tools for both customers and restaurant owners. Continuous improvements and adaptation to changing requirements will ensure that the application remains relevant and useful in the dynamic restaurant industry.

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- 8. Zhang, Y., Hurley, N. (2020). "Sentiment Analysis for Recommender Systems in Restaurants."

	if len(single_rev[0])	# Convert the integer
Appendix:	> 2:	encoding to binary values
	x.append(single_rev[0])	
Source code:	if len(single_rev[1])	one = OneHotEncoder()
Main.py	> 2:	rates =
# Importing Libraries	y.append(single_rev[1])	one.fit_transform(rating_fin
import numpy as np	\.abbe.ua(e8.e ⁻ .e.[-1]	al).toarray()
import pandas as pd	# Printing X and Y	# print(rates)
import re	# print(x)	
# Import NLTK libraries	# print(y)	# Stemming and removing
from nltk.corpus import	p(y)	unnecessary stop words
stopwords	# Preprocessing 1	for loop in range(0, 40000):
from nltk.stem.porter	ps = PorterStemmer()	data_y = y[loop]
import PorterStemmer	ps Torterstemmer()	data_y = re.sub('[^a-zA-Z]', "
from sklearn.preprocessing	# To store the final rating	", data_y)
import LabelEncoder	rating final = []	data_y = data_y.lower()
from sklearn.preprocessing	# To store cleaned reviews	data_y = data_y.split()
import OneHotEncoder	review_final = []	data_y = [ps.stem(word) for
from	review_iiiiai = []	word in data_y if not word in
sklearn.feature_extraction.t	# Preprocessing for Ratings	set(stopwords.words('en'))]
ext import CountVectorizer	for loop in range(0, 40000):	data_y = ' '.join(data_y)
import pickle	$data_x = x[loop]$	review_final.append(data_y
from	$data_x = x[loop]$ $data_x = re.sub('[a-zA-Z]', "$)
sklearn.model_selection	", data_x)	, # print(review_final)
import train_test_split	data_x = data_x.split()	# print(review_iniai)
from keras.models import	data_x = ''.join(data_x)	# Bag of words
Sequential	data_x = .join(data_x) data_x = float(data_x)	CV =
from keras.layers import	if data_x< 2.5:	CountVectorizer(max_featur
Dense	rating_final.append("poor")	es=20000)
	elif 2.5 <= data_x<= 3.5:	x final =
# Importing and Reading the	rating_final.append("averag	cv.fit_transform(review_fina
Dataset	e")	l).toarray()
dataset =	elifdata_x> 3.5:	ij.toairay()
pd.read_csv("DataSet/zoma	rating_final.append("good")	# Saving the 'vectorizer'
to.csv")	# print(rating_final)	which will be used as
data_review =	# print(rating_inial)	dictionary
dataset['reviews_list']	# Preprocessing for Reviews	pickle.dump(cv,
	le = LabelEncoder()	open('cv.pkl', 'wb'))
# Printing data_review	rating_final =	open(cv.pki, wb/)
# print(data_review)	le.fit_transform(rating_final	# Split the data into test and
	le.lit_transform(rating_imai	# Split the data into test and train sets
# Splitting the data into	# print(rating_final)	
Reviews and Ratings	# Convert rating_final from	x_train, x_test, y_train, y_test =
x = []	one dimensional array to	train_test_split(x_final,
y = []	two-dimensional array	rates, test_size=0.2,
for row in range(0, 51716):	rating_final =	random_state=0)
lst =	np.array(rating_final)	random_state=0j
data_review[row].split("('")	0. 1	# Model Building
for i in lst:		# Model Building model = Sequential()
if len(i) > 5:	np.expand_dims(rating_fina	
if i.find("',") != -1:	l, axis=1) # print/rating_final	model.add(Dense(units=132
single_rev = i.split("',")	# print(rating_final)	64,

```
kernel initializer='random
                                       from keras.models import
                                                                               with graph.as_default():
   uniform', activation='relu'))
                                       load model
                                                                                  model
   model.add(Dense(units=200
                                       import re
                                                                           load_model("zomato_analy
                                       from
                                              nltk.corpus
                                                                           sis.h5", compile=False)
                                                            import
   kernel_initializer='random
                                       stopwords
                                                                           y p = model.predict(review)
   uniform', activation='relu'))
                                       from
                                                   nltk.stem.porter
                                                                               print(y_p)
   model.add(Dense(units=200
                                       import PorterStemmer
                                                                               if y_p.argmax() == 0:
                                                                                  output = "Average"
                                       import tensorflow as tf
   kernel initializer='random
                                       import pickle
                                                                           elify p.argmax() == 1:
   uniform', activation='relu'))
                                       global graph
                                                                                 output = "Good"
   model.add(Dense(units=200
                                       graph
                                                                               else:
   0,
                                       tf.compat.v1.get_default_gr
                                                                                  output = "Poor"
   kernel_initializer='random_
                                                                               return
                                       aph()
   uniform', activation='relu'))
                                       ps = PorterStemmer()
                                                                           render_template('predictio
   model.add(Dense(units=3,
                                                                           n.html', prediction=output)
   kernel_initializer='random_
                                       # Load the saved model
                                                                             else:
   uniform',
                                       with open(r'cv.pkl', 'rb') as
                                                                               return
   activation='softmax'))
                                       file:
                                                                           render template('predictio
   model.compile(optimizer='a
                                         cv = pickle.load(file)
                                                                           n.html')
   dam',
   loss='categorical_crossentro
                                       арр
                                                  Flask(__name___,
   py', metrics=['accuracy'])
                                       template folder="template
                                                                           @app.route('/about')
   model.fit(x train,
                                       s")
                                                                           def about():
                        y train,
   batch_size=128,
                                                                             return
   epochs=200)
                                                                           render_template('project.ht
                                       @app.route('/')
                                                                           ml')
   # Testing the prediction
                                       def welcome():
   y pred
                                         return
   model.predict(x_test)
                                       render_template('home.ht
                                                                           if __name__ == '__main__':
   text = "The food is okay.
                                       ml', name="Home")
                                                                           app.run(host='localhost',
   Average place"
                                                                           port=9000,
                                                                                          debug=True,
   text = re.sub('[^a-zA-Z]', " ",
                                                                           threaded=False)
                                       @app.route('/predict',
   text)
                                                                       B. HTML Codes
   text = text.lower()
                                       methods=['GET', 'POST'])
                                                                       1) Home.html
   text = text.split()
                                       def pred():
                                                                           <!DOCTYPE html>
   text = [ps.stem(word) for
                                         if request.method
                                                                           <html lang="en">
                                       'POST':
   word in text if not word in
                                                                           <head>
   set(stopwords.words('en'))]
                                                                           <meta charset="UTF-8">
                                            review
   text = ' '.join(text)
                                       request.form['message']
                                                                                       rel="stylesheet"
                                                                           k
                                            review = re.sub('[^a-zA-
                                                                           href="https://cdnjs.cloudfla
   model.predict(cv.transform(
                                       Z]', ' ', review)
                                                                           re.com/ajax/libs/font-
                                                                           awesome/4.7.0/css/font-
                                            review = review.lower()
   [text]))
   # print(y_p)
                                            review = review.split()
                                                                           awesome.min.css">
                                                                           <title>Home</title>
                                            review
   # Saving the model
                                       [ps.stem(word) for word in
                                                                           <style>
   model.save("zomato_analys
                                       review if not word in
                                                                               body {
   is.h5")
                                       set(stopwords.words('en'))]
                                                                                  background-image:
A. Webb.py
                                            review = ' '.join(review)
                                                                           url('/static/home.jpg');
   # Import the libraries
                                            review
                                                                                  background-repeat:
   from flask import Flask,
                                       cv.transform([review]).toarr
                                                                           no-repeat;
   render_template, request
                                       ay()
```

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bottom: 45%;	}	awesome.min.css">	
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padding: 10px;	decoration:none;">Home </td <td>height: 60px;</td>	height: 60px;	
display: flex;	a>	padding: 10px;	
justify-content: flex-		display: flex;	
end;	<div class="search-predict"></div>	justify-content: flex-	
align-items: center;	<i class="fa fa-search"></i>	end;	
font-family: "Lucida	<a "courier="" ,="" href="{{</td><td>align-items: center;</td></tr><tr><td>Console" new",<="" td=""><td>url_for('pred') }}"</td><td>font-family: "Lucida</td>	url_for('pred') }}"	font-family: "Lucida
monospace;	style="color:white;text-	Console", "Courier New",	
}	decoration:none;">Predict<	monospace;	
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margin-left: 30px;		.transparent-header div {	
display: flex;		margin-left: 30px;	
align-items: center;		margin-right: 10px;	

display: flex;	}	
align-items: center;	.heading {	<body></body>
color: #ffffff;	margin-top: 100px;	<header class="transparent-</td></tr><tr><td>font-size: 16px;</td><td>font-size: 40px;</td><td>header"></header>
}	margin-bottom:	<div class="home"></div>
.transparent-header i {	10px;	<i class="fa fa-home"></i>
margin-right: 13px;	color: #E1D9D1;	<a <="" href="{{</td></tr><tr><td>}</td><td>}</td><td>url_for('welcome') }}" td="">
.transparent-header .fa-	.sub-heading {	style="color:white;text-
home {	font-size: 20px;	decoration:none;">Home </td
color: #ffffff;	margin-bottom:	a>
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search {	}	<i class="fa fa-search"></i>
color: #ffffff;	.review-textbox {	<a <="" href="{{</td></tr><tr><td>}</td><td>width: 100%;</td><td>url_for('pred') }}" td="">
.transparent-header .fa-info	height: 70px;	style="color:white;text-
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color: #ffffff;	padding: 10px;	/a>
}	font-size: 16px;	
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} .transparent-header .about { display: flex; align-items: center; margin-left: 20px; margin-right: 40px; color: #ffffff;	} .predict-button { width: 100%; padding: 10px; font-size: 16px; background-color: grey;	<div class="centered-content"> <h1 class="heading">REVIEW ANALYSIS</h1></div>
} .transparent-header .about { display: flex; align-items: center; margin-left: 20px; margin-right: 40px;	} .predict-button { width: 100%; padding: 10px; font-size: 16px; background-color: grey; color: #E1D9D1;	<div class="centered-content"> <h1 class="heading">REVIEW ANALYSIS</h1> <h2 centered-content"="" class="sub-</td></tr><tr><td>} .transparent-header .about { display: flex; align-items: center; margin-left: 20px; margin-right: 40px; color: #ffffff; font-size: 14px; }</td><td>} .predict-button { width: 100%; padding: 10px; font-size: 16px; background-color: grey; color: #E1D9D1; border: none;</td><td></div> </header> <div class="> <h1 class="heading">REVIEW ANALYSIS</h1> <h2 class="subheading">Enter your review</h2></h2></div>
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<pre><meta charset="utf-8"/></pre>	3)	<label><textarea class="result-textbox" name="message" readonly="">{% if prediction %} Result: {{ prediction }} {% endif %}</textarea></label> About.html html <html lang="en"> <head></head></html>	font-family: "Lucida Console", "Courier New", monospace; } .transparent-header div { margin-left: 30px; margin-right: 10px; display: flex; align-items: center; color: #ffffff; font-size: 16px; } .transparent-header i { margin-right: 13px;	flex-direction: column; justify-content: center; align-items: center; height: 100vh; font-family: Georgia, serif; } .heading { font-size: 36px; text-align: center; margin-bottom: 20px;
href="https://cdnjs.cloudfla re.com/ajax/libs/font- awesome/4.7.0/css/font- awesome.min.css">			}	color: #fff;
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·			.centered-content {	style="color:white;text- decoration:none;">Home </td

</div> <div class="search-predict"> <i class="fa fa-search"></i> Predict< /a> </div> <div class="about"> <i class="fa fa-info"></i> About</ a> </div> </header> <div class="centeredcontent"> <h1 class="heading">Zomato Review Analysis</h1> ml>

paragraph">

The motto of our project is to check whether a given feedback is positive or negative.

digital world, a food app like Zomato is widely used because

because

because

because their opinion about the restaurants and cafes they have visited and find a place to enjoy.

become to a types as below.

<div class="image-boxes"> <div class="image-box"> <imgsrc="/static/positivefeedback.jpg" alt=""> <p class="imagelabel">Positive Feedback </div> <div class="image-box"> <imgsrc="/static/neutralfeedback.jpg" alt=""> class="imagelabel">Neutral Feedback </div> <div class="image-box"> <imgsrc="/static/negativefeedback.jpg" alt=""> <p class="imagelabel">Negative Feedback </div> </div> </div> </body>

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