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## Contenido

1. Actividad	2
1.2. Enunciado	2
1.3. Resolución	2
2. Actividad	2
2.2. Enunciado general	2
2.2.1.1 Enunciado actividad 1	2
2.2.1.2 Resolución	3
2.2.2.1 Enunciado actividad 2	3
2.2.2.2.2 Actividad del artículo 1	3
2.2.2.2.3 Actividad del artículo 2	6
2.2.2.2.4 Actividad del artículo 3	8
2.2.2.5 Actividad del artículo 4	9
2.2.2.2.6 Actividad del artículo 5	13
3. Enlace del colab	14



## 1. Actividad

#### 1.2. Enunciado

Resuma el artículo a continuación, destacando los aspectos clave y las conclusiones principales:

https://towardsdatascience.com/sentiment-analysis-concept-analysis-and-applications-6c94d 6f58c17

## 1.3. Resolución

El artículo explica la importancia del análisis de sentimientos, que es una técnica de minería de texto que permite a las empresas comprender la percepción social sobre sus marcas. El autor destaca que el análisis básico de sentimientos, como la clasificación de mensajes en positivos, negativos o neutrales, es superficial y pierde perspectivas más profundas que pueden ser extraídas con tecnologías avanzadas como el aprendizaje profundo y la inteligencia artificial.

Los aspectos claves principales a destacar según mi criterio son las siguientes; la definición de análisis de sentimientos; el análisi de intenciones, que va más allá del análisis de sentimientos, permitiendo identificar la intención del mensaje; la búsqueda css (semántica contextual), esto clasifica los mensajes según los contextos sin depender de palabras clave exactas; y finalmente el caso de Estudio y ejemplo de Uber, que realizó un análisis profundo de las redes sociales sobre los comentarios sobre Uber y sus determinadas categorías (Precios, seguridad, pagos, etc). Este análisis permitió a la empresa darse cuenta de problemas con cancelaciones y con el servicio que permitieron ponerles alerta y mejorar su servicio.

### 2. Actividad

## 2.2. Enunciado general

Verifique que la información mostrada en este artículo coincide con el artículo de la actividad R.1 de análisis de sentimientos:

https://www.analyticsvidhya.com/blog/2022/07/sentiment-analysis-using-python/

#### 2.2.1.1 Enunciado actividad 1

Lleve a cabo un proceso de resumen, destacando las ideas principales y realice una comparación con el artículo del ejercicio anterior.

(Artículo 1)(Artículo 2)



#### 2.2.1.2 Resolución

Este nuevo artículo explica cómo realizar análisis de sentimientos en Python, una técnica clave en el procesamiento de lenguaje natural para clasificar textos según sus sentimientos y se detallan diversas herramientas como; TextBlob, que es una librería que devuelve valores de polaridad y subjetividad; VADER, un analizador basado en el uso de las redes sociales; Modelos de aprendizaje automático; modelos basados en LSTM (Modelos de redes neuronales recurrentes para datos secuenciales); y modelos basados en transformaciones, como el uso de modelos pre entrenados

Ambos artículos abordan el análisis de sentimientos, pero con enfoques y profundidades diferentes:

El nuevo artículo presenta una explicación mucho más detallada sobre el uso de herramientas para el análisis de sentimientos, sin embargo el primer artículo muestra los principios básicos con menos profundidad técnica. Además, el segundo artículo muestra ejemplos detallados y un enfoque práctico basado principalmente en python, mientras que el artículo anterior menciona las aplicaciones generales de manera más abstracta resaltando su simplicidad y variedad de métodos.

#### 2.2.2.1 Enunciado actividad 2

Adicionalmente, verifique el funcionamiento de los códigos de Python presentados en el artículo. Es fundamental que aumente el tamaño de la muestra en cada uno de los ejemplos para obtener resultados más consistentes.

#### 2.2.2.2.2 Actividad del artículo 1

Instalación de textblob:

```
TextBlob

[ ] !pip install textblob

Requirement already satisfied: textblob in /usr/local/lib/python3.10/dist-packages (0.17.1)
Requirement already satisfied: nltk>=3.1 in /usr/local/lib/python3.10/dist-packages (from textblob) (3.8.1)
Requirement already satisfied: click in /usr/local/lib/python3.10/dist-packages (from nltk>=3.1->textblob) (8.1.7)
Requirement already satisfied: joblib in /usr/local/lib/python3.10/dist-packages (from nltk>=3.1->textblob) (1.4.2)
Requirement already satisfied: regex>=2021.8.3 in /usr/local/lib/python3.10/dist-packages (from nltk>=3.1->textblob) (2024.9.11)
Requirement already satisfied: tqdm in /usr/local/lib/python3.10/dist-packages (from nltk>=3.1->textblob) (4.66.5)
```

#### Código con más ejemplos:

```
from textblob import TextBlob # import TextBlob
```

```
# main.py
from textblob import TextBlob
# Definiendo una lista de ejemplos de texto
texts = [
```



```
"What a fantastic experience!",
    "I'm so disappointed with my order.", # negativo
polarities = []
subjectivities = []
for i, text in enumerate(texts):
   polarity = TextBlob(text).sentiment.polarity
   polarities.append(polarity)
   subjectivity = TextBlob(text).sentiment.subjectivity
   subjectivities.append(subjectivity)
   print(f"Text {i+1}: '{text}'")
   print(f"Polarity: {polarity}, Subjectivity: {subjectivity}\n")
```



```
print("Polarities:", polarities)
print("Subjectivities:", subjectivities)
```

Resultado de ejecución con más ejemplos:

```
Text 1: 'The movie was so awesome.'
Polarity: 1.0, Subjectivity: 1.0
Text 2: 'The food here tastes terrible.'
Polarity: -1.0, Subjectivity: 1.0
Text 3: 'I love this place!'
Polarity: 0.625, Subjectivity: 0.6
Text 4: 'This is the worst service ever.'
Polarity: -1.0, Subjectivity: 1.0
Text 5: 'What a fantastic experience!'
Polarity: 0.5, Subjectivity: 0.9
Text 6: 'I'm so disappointed with my order.'
Polarity: -0.75, Subjectivity: 0.75
Text 7: 'The view from the top is breathtaking.'
Polarity: 0.75, Subjectivity: 0.75
Text 8: 'I hate waiting in long lines.'
Polarity: -0.42500000000000004, Subjectivity: 0.65
Text 9: 'This book is a masterpiece.'
Polarity: 0.0, Subjectivity: 0.0
Text 10: 'I can't stand the noise in the city.'
Polarity: 0.0, Subjectivity: 0.0
Text 11: 'The weather is beautiful today.'
Polarity: 0.85, Subjectivity: 1.0
Text 12: 'I feel so sad and alone.'
Polarity: -0.5, Subjectivity: 1.0
Text 13: 'This product exceeded my expectations!'
Polarity: 0.0, Subjectivity: 0.0
Text 14: 'The customer service was unhelpful.'
Polarity: 0.0, Subjectivity: 0.0
```



#### 2.2.2.2.3 Actividad del artículo 2

#### Instalación de Vader:

```
VADER

[3] !pip install vaderSentiment

Collecting vaderSentiment

Downloading vaderSentiment-3.3.2-py2.py3-none-any.whl.metadata (572 bytes)

Requirement already satisfied: requests in /usr/local/lib/python3.10/dist-packages (from vaderSentiment) (2.32.3)

Requirement already satisfied: charset-normalizer<4,>=2 in /usr/local/lib/python3.10/dist-packages (from requests->vaderSentiment) (3.4.0)

Requirement already satisfied: idna<4,>=2.5 in /usr/local/lib/python3.10/dist-packages (from requests->vaderSentiment) (3.10)

Requirement already satisfied: urllib3<3,>=1.21.1 in /usr/local/lib/python3.10/dist-packages (from requests->vaderSentiment) (2.2.3)

Requirement already satisfied: certifi>=2017.4.17 in /usr/local/lib/python3.10/dist-packages (from requests->vaderSentiment) (2024.8.30)

Downloading vaderSentiment-3.3.2-py2.py3-none-any.whl (125 kB)

105.00/126.00 kB 2.4 MB/s eta 0:00:00

Installing collected packages: vaderSentiment

Successfully installed vaderSentiment-3.3.2
```

#### Código con más ejemplos:

```
from vaderSentiment.vaderSentiment import SentimentIntensityAnalyzer

# Inicializando el analizador de sentimientos
sentiment = SentimentIntensityAnalyzer()

# Definiendo una lista de ejemplos de texto
texts = [
    "The book was a perfect balance between writing style and plot.", #
positivo
    "The pizza tastes terrible.",

# negativo
    "I absolutely loved the new movie!",
positivo
    "The service was awful and very slow.",
negativo
    "This is one of the best vacations I've ever had.",
# positivo
```



```
negativo
negativo
negativo
positivo
negativo
positivo
negativo
    "The new restaurant in town has delicious food!",
negativo
negativo
    "The quality of the service was subpar and not worth the price." #
negativo
for i, text in enumerate(texts):
    sentiment scores = sentiment.polarity scores(text)
```



```
print(f"Sentiment of text {i + 1}: '{text}' ->
{sentiment_scores}\n")
```

## Resultado de ejecución con más ejemplos:

```
Sentiment of text 1: 'The book was a perfect balance between writing style and plot.' -> {'neg': 0.0, 'neu': 0.73, 'pos': 0.27, 'compound': 0.5719
Sentiment of text 2: 'The pizza tastes terrible.' -> {'neg': 0.508, 'neu': 0.492, 'pos': 0.0, 'compound': -0.4767}
Sentiment of text 3: 'I absolutely loved the new movie!' -> {'neg': 0.0, 'neu': 0.527, 'pos': 0.473, 'compound': 0.6689}
Sentiment of text 7: 'What a delightful surprise to find this cafe!' -> {'neg': 0.0, 'neu': 0.492, 'pos': 0.508, 'compound': 0.7345}
Sentiment of text 8: 'The noise outside is really annoying.' -> {'neg': 0.374, 'neu': 0.626, 'pos': 0.0, 'compound': -0.4576}
Sentiment of text 9: 'Her artwork is incredibly beautiful.' -> {'neg': 0.0, 'neu': 0.488, 'pos': 0.512, 'compound': 0.6361}
Sentiment of text 10: 'I'm frustrated with the long wait times.' -> {'neg': 0.362, 'neu': 0.638, 'pos': 0.0, 'compound': -0.5267}
Sentiment of text 11: 'The atmosphere in this restaurant is amazing.' -> {'neg': 0.0, 'neu': 0.612, 'pos': 0.388, 'compound': 0.5859}
Sentiment of text 12: 'This product did not meet my expectations.' -> {'neg': 0.0, 'neu': 1.0, 'pos': 0.0, 'compound': 0.0}
Sentiment of text 14: 'I'm not satisfied with my purchase at all.' -> {'neg': 0.25, 'neu': 0.75, 'pos': 0.0, 'compound': -0.3252}
Sentiment of text 15: 'He gave an inspiring speech that motivated everyone.' -> {'neg': 0.0, 'neu': 0.508, 'pos': 0.492, 'compound': 0.7003}
Sentiment of text 16: 'I feel very disappointed by the lack of options.' -> {'neg': 0.449, 'neu': 0.551, 'pos': 0.0, 'compound': -0.6901}
Sentiment of text 18: 'I cannot recommend this hotel due to its poor cleanliness.' -> {'neg': 0.394, 'neu': 0.606, 'pos': 0.0, 'compound': -0.6381}
Sentiment of text 19: 'The weather was perfect for a day at the beach.' -> {'neg': 0.0, 'neu': 0.799, 'pos': 0.291, 'compound': 0.5719}
Sentiment of text 20: 'I am very upset about the recent changes.' -> {'neg': 0.292, 'neu': 0.708, 'pos': 0.0, 'compound': -0.4391}
Sentiment of text 21: 'This book is a real page-turner and keeps you engaged!' -> {'neg': 0.0, 'neu': 0.751, 'pos': 0.249, 'compound': 0.4574}
```

#### 2.2.2.2.4 Actividad del artículo 3

Código para el análisis de sentimientos utilizando el enfoque de vectorización de bolsa de palabras

## código:

```
#Loading the Dataset
```

```
import pandas as pd
data = pd.read_csv('data.csv')
#Pre-Prcoessing and Bag of Word Vectorization using Count Vectorizer
from sklearn.feature_extraction.text import CountVectorizer
from nltk.tokenize import RegexpTokenizer
token = RegexpTokenizer(r'[a-zA-Z0-9]+')
cv = CountVectorizer(stop_words='english',ngram_range = (1,1),tokenizer
= token.tokenize)
```



```
text_counts = cv.fit_transform(data['Sentence'])
#Splitting the data into trainig and testing
from sklearn.model_selection import train_test_split
X_train, X_test, Y_train, Y_test = train_test_split(text_counts,
data['Sentiment'], test_size=0.25, random_state=5)
#Training the model
from sklearn.naive_bayes import MultinomialNB
MNB = MultinomialNB()
MNB.fit(X_train, Y_train)
#Caluclating the accuracy score of the model
from sklearn import metrics
predicted = MNB.predict(X_test)
accuracy_score = metrics.accuracy_score(predicted, Y_test)
print("Accuracy Score: ",accuracy_score)
```

#### Resultado:

Accuracuy Score: 0.6851471594798083

#### 2.2.2.2.5 Actividad del artículo 4

#### Instalación Keras:

```
Requirement already satisfied: keras in /usr/local/lib/python3.10/dist-packages (3.4.1)
Requirement already satisfied: absl-py in /usr/local/lib/python3.10/dist-packages (from keras) (1.4.0)
Requirement already satisfied: numpy in /usr/local/lib/python3.10/dist-packages (from keras) (1.26.4)
Requirement already satisfied: rich in /usr/local/lib/python3.10/dist-packages (from keras) (13.9.3)
Requirement already satisfied: namex in /usr/local/lib/python3.10/dist-packages (from keras) (0.0.8)
Requirement already satisfied: hSpy in /usr/local/lib/python3.10/dist-packages (from keras) (3.11.0)
Requirement already satisfied: ml-dtypes in /usr/local/lib/python3.10/dist-packages (from keras) (0.4.1)
Requirement already satisfied: packaging in /usr/local/lib/python3.10/dist-packages (from keras) (0.4.1)
Requirement already satisfied: typing-extensions>=4.5.0 in /usr/local/lib/python3.10/dist-packages (from optree->keras) (3.10.0)
Requirement already satisfied: markdown-it-py>=2.2.0 in /usr/local/lib/python3.10/dist-packages (from rich->keras) (3.0.0)
Requirement already satisfied: markdown-it-py>=2.2.0 in /usr/local/lib/python3.10/dist-packages (from rich->keras) (2.18.0)
Requirement already satisfied: mdurl~=0.1 in /usr/local/lib/python3.10/dist-packages (from markdown-it-py>=2.2.0->rich->keras) (0.1.2)
```

#### código:

# Importing necessary libraries

```
import nltk
import pandas as pd
from textblob import Word
from nltk.corpus import stopwords
from sklearn.preprocessing import LabelEncoder
from sklearn.metrics import classification_report, confusion_matrix,
accuracy_score
from keras.models import Sequential
```



```
from tensorflow.keras.layers import LeakyReLU
from tensorflow.keras.preprocessing.text import Tokenizer
from tensorflow.keras.preprocessing.sequence import pad sequences
from keras.layers import Dense, Embedding, LSTM, SpatialDropout1D
from sklearn.model selection import train test split
nltk.download('stopwords') # Downloads English stopwords
nltk.download('wordnet')  # Downloads WordNet lexicon for lemmatization
nltk.download('omw-1.4') # Downloads additional WordNet lexicon
data = pd.read csv('data.csv')  # Loads the dataset from a CSV file
def cleaning(df, stop words):
   df['Sentence'] = df['Sentence'].apply(lambda x: ' '.join(x.lower())
for x in x.split())) # Converts to lowercase
   df['Sentence'] = df['Sentence'].str.replace('\d+', '', regex=True)
# Removes digits from the text
   df['Sentence'] = df['Sentence'].apply(lambda x: ' '.join(x for x in
x.split() if x not in stop words)) # Removes stop words
   df['Sentence'] = df['Sentence'].apply(lambda x: '
.join([Word(word).lemmatize() for word in x.split()]))  # Applies
stop words = stopwords.words('english')
data cleaned = cleaning(data, stop words)
tokenizer = Tokenizer(num words=500, split=' ')
tokenizer.fit on texts(data cleaned['Sentence'].values)
```



```
X = tokenizer.texts to sequences(data cleaned['Sentence'].values)
X = pad sequences(X)
y = pd.get dummies(data cleaned['Sentiment']).values
model = Sequential()
model.add(Embedding(500, 120, input length=X.shape[1]))
model.add(SpatialDropout1D(0.4))
model.add(LSTM(704, dropout=0.2, recurrent dropout=0.2))
model.add(Dense(352))
model.add(LeakyReLU(negative slope=0.1))
model.add(Dense(3, activation='softmax'))
model.compile(loss='categorical crossentropy', optimizer='adam',
metrics=['accuracy']) # Compile
print(model.summary())
X train, X test, y train, y test = train test split(X, y,
test_size=0.2, random_state=42)
model.fit(X train, y train, epochs=20, batch size=32, verbose=1)
model.evaluate(X_test, y_test)
```



## Resultado:

Resultado:		
Non-trainable params: 0 (0.	оо в)	
None Epoch 1/20		
	<b>85s</b> 551ms/step - accuracy: 0.5441 - loss: 1.0236	
Epoch 2/20	635 331ms/step - accuracy. 6.3441 - 1055. 1.6230	
•	84s 563ms/step - accuracy: 0.6350 - loss: 0.8185	
Epoch 3/20	013 303m3, 300p accaracy: 010330 10331 010103	
	136s 520ms/step - accuracy: 0.6722 - loss: 0.7323	
Epoch 4/20	,,	
•	81s 515ms/step - accuracy: 0.6996 - loss: 0.6697	
Epoch 5/20		
147/147	<b>82s</b> 515ms/step - accuracy: 0.7144 - loss: 0.6425	
Epoch 6/20		
147/147	<b>76s</b> 518ms/step - accuracy: 0.7234 - loss: 0.6228	
Epoch 7/20		
	<b>82s</b> 516ms/step - accuracy: 0.7011 - loss: 0.6578	
Epoch 8/20		
	<b>83s</b> 524ms/step - accuracy: 0.7335 - loss: 0.5791	
Epoch 9/20 147/147	81s 518ms/step - accuracy: 0.7480 - loss: 0.5469	
Epoch 10/20	815 518ms/step - accuracy: 0.7480 - 1055: 0.5409	
	83s 528ms/step - accuracy: 0.7589 - loss: 0.5203	
Epoch 11/20	633 320m3/3cep - accuracy. 0.7369 - 1033. 0.3203	
•	<b>79s</b> 508ms/step - accuracy: 0.7686 - loss: 0.5117	
Epoch 12/20	733 300m3, 3ccp decardey: 017000 10331 013117	
•	84s 518ms/step - accuracy: 0.7605 - loss: 0.5055	
Epoch 13/20		
147/147	81s 514ms/step - accuracy: 0.7816 - loss: 0.4545	
Epoch 14/20		
	<b>83s</b> 524ms/step - accuracy: 0.7430 - loss: 0.5478	
Epoch 15/20		
	<b>80s</b> 513ms/step - accuracy: 0.7794 - loss: 0.4497	
Epoch 16/20	/.	
	<b>88s</b> 552ms/step - accuracy: 0.7885 - loss: 0.4426	
Epoch 17/20	75c [00mc/stan   05cupacy: 0 7000   10cc: 0 4336	
147/147 —————————— Epoch 18/20	<b>75s</b> 509ms/step - accuracy: 0.7859 - loss: 0.4336	
	<b>85s</b> 529ms/step - accuracy: 0.7899 - loss: 0.4443	
Epoch 19/20	653 52511373Cep - accuracy. 0.7655 - 1033. 0.4443	
•	<b>80s</b> 515ms/step - accuracy: 0.7770 - loss: 0.4597	
Epoch 20/20	2000 1000 1000 1000 1000 1000 1000 1000	
•	82s 512ms/step - accuracy: 0.8012 - loss: 0.4174	
	s 175ms/step - accuracy: 0.6724 - loss: 0.9244	
[0.978830873966217, 0.6621043682098389]		



#### 2.2.2.2.6 Actividad del artículo 5

#### Instalación de transformers:

```
Requirement already satisfied: transformers in /usr/local/lib/python3.10/dist-packages (4.44.2)

Requirement already satisfied: filelock in /usr/local/lib/python3.10/dist-packages (from transformers) (3.16.1)

Requirement already satisfied: huggingface-hubc1.0,>-0.23.2 in /usr/local/lib/python3.10/dist-packages (from transformers) (1.26.4)

Requirement already satisfied: numpy>-1.17 in /usr/local/lib/python3.10/dist-packages (from transformers) (1.26.4)

Requirement already satisfied: packaging>-20.0 in /usr/local/lib/python3.10/dist-packages (from transformers) (24.1)

Requirement already satisfied: packaging>-20.0 in /usr/local/lib/python3.10/dist-packages (from transformers) (2.24.9.11)

Requirement already satisfied: requests in /usr/local/lib/python3.10/dist-packages (from transformers) (2.024.9.11)

Requirement already satisfied: safetensors>-0.4.1 in /usr/local/lib/python3.10/dist-packages (from transformers) (2.32.3)

Requirement already satisfied: safetensors>-0.4.1 in /usr/local/lib/python3.10/dist-packages (from transformers) (0.4.5)

Requirement already satisfied: tokenizers(0.20,>-0.9 in /usr/local/lib/python3.10/dist-packages (from transformers) (0.9.1)

Requirement already satisfied: tokenizers(0.20,>-0.9 in /usr/local/lib/python3.10/dist-packages (from transformers) (0.9.2)

Requirement already satisfied: typing-extensions>-3.7.4.3 in /usr/local/lib/python3.10/dist-packages (from huggingface-hubc1.0,>-0.23.2->transformers) (2.024.6.1)

Requirement already satisfied: typing-extensions>-3.7.4.3 in /usr/local/lib/python3.10/dist-packages (from magingface-hubc1.0,>-0.23.2->transformers) (4.12.2)

Requirement already satisfied: daraget-normalizer</a>

Requirement already satisfied: charset-normalizer</a>

Requirement already satis
```

#### Código con más ejemplos:

import transformers

```
# Inicializando el pipeline de análisis de sentimientos
sentiment_pipeline = pipeline("sentiment-analysis")

# Definiendo una lista de ejemplos de texto

data = [

"It was the best of times.",  # positivo

"It was the worst of times.",  # negativo

"It absolutely love this place!",  # positivo

"The service here is terrible.",  # negativo

"What an amazing experience!",  # positivo

"I'm so disappointed with the movie.",  # negativo

"The view from the top is breathtaking.",  # positivo

"I can't stand the noise from the street.",  # negativo

"This book is a fantastic read!",  # positivo

"The food was bland and uninspiring.",  # negativo

"Her performance was outstanding!",  # positivo

"I'm really frustrated with the delay.",  # negativo

"This restaurant serves the best pasta I've ever had!",  # positivo

"I'm unhappy with how my complaint was handled.",  # negativo
```



```
"The concert was exhilarating!",  # positivo

"I don't think I will return to this place.",  # negativo

"The movie had a beautiful soundtrack.",  # positivo

"I felt bored and restless during the presentation.",  # negativo

"This app has changed my life for the better!"  # positivo

# Realizando el análisis de sentimientos

results = sentiment_pipeline(data)

# Imprimiendo los resultados

for i, text in enumerate(data):

    print(f"Text: '{text}' -> Sentiment: {results[i]}")
```

#### Resultado:

```
Text: 'It was the best of times.' -> Sentiment: {'label': 'POSITIVE', 'score': 0.999457061290741}

Text: 'It was the worst of times.' -> Sentiment: {'label': 'NEGATIVE', 'score': 0.9997925162315369}

Text: 'I absolutely love this place!' -> Sentiment: {'label': 'POSITIVE', 'score': 0.999887228012085}

Text: 'The service here is terrible.' -> Sentiment: {'label': 'NEGATIVE', 'score': 0.999887228012085}

Text: 'What an amazing experience!' -> Sentiment: {'label': 'NEGATIVE', 'score': 0.9998205304145813}

Text: 'I'm so disappointed with the movie.' -> Sentiment: {'label': 'NEGATIVE', 'score': 0.9998205304145813}

Text: 'The view from the top is breathtaking.' -> Sentiment: {'label': 'POSITIVE', 'score': 0.999880577033390588}

Text: 'I can't stand the noise from the street.' -> Sentiment: {'label': 'NEGATIVE', 'score': 0.99988057703399658}

Text: 'This book is a fantastic read!' -> Sentiment: {'label': 'NEGATIVE', 'score': 0.9997144877910614}

Text: 'The food was bland and uninspiring.' -> Sentiment: {'label': 'NEGATIVE', 'score': 0.9997547268867493}

Text: 'The food was bland and uninspiring.' -> Sentiment: {'label': 'NEGATIVE', 'score': 0.9997547268867493}

Text: 'I feel very let down by this product.' -> Sentiment: {'label': 'NEGATIVE', 'score': 0.9999769269752502}

Text: 'I feel very let down by this product.' -> Sentiment: {'label': 'NEGATIVE', 'score': 0.9999769269752502}

Text: 'I'm really frustrated with the delay.' -> Sentiment: {'label': 'NEGATIVE', 'score': 0.99997825026512146}

Text: 'This restaurant serves the best pasta I've ever had!' -> Sentiment: {'label': 'NEGATIVE', 'score': 0.9996020197868347}

Text: 'The concert was exhilarating!' -> Sentiment: {'label': 'NEGATIVE', 'score': 0.9996727705001831}

Text: 'I'm unhappy with how my complaint was handled.' -> Sentiment: {'label': 'NEGATIVE', 'score': 0.9996727705001831}

Text: 'I hon't think I will return to this place.' -> Sentiment: {'label': 'NEGATIVE', 'score': 0.9998812675476074}

Text: 'I hon't think I will return to this place.' -> Sentiment: {
```

#### 3. Enlace del colab

