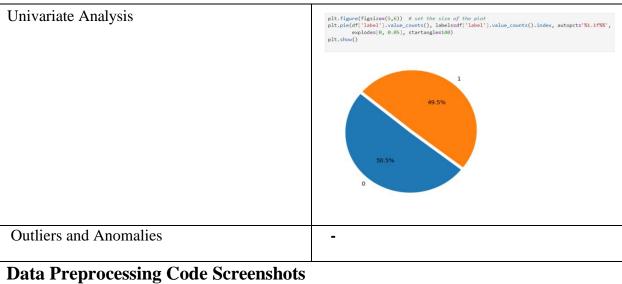
Data Collection And Preprocessing Phase

Date	15 November 2024
TeamID	739909
ProjectName	Unlocking the Minds: Analyzing Mental Health with NLP
Maximum Marks	6 Marks

Data Exploration and Preprocessing Report:

Dataset variables will undergo statistical analysis to identify patterns and outliers. Python will be used for preprocessing tasks such as normalization and feature engineering. Data cleaning will address missing values and outliers to ensure data quality for subsequent analysis and modeling, forming a robust foundation for insights and predictions.

Section	Descr	Description	
Oata Overview			
	df.des	<pre>df.describe(include='all')</pre>	
		text	label
	count	27972	27972.000000
	unique	27972	NaN
	top	dear american teens question dutch person hear	NaN
	freq	1	NaN
	mean	NaN	0.494709
	std	NaN	0.499981
	min	NaN	0.000000
	25%	NaN	0.000000
	50%	NaN	0.000000
	75%	NaN	1.000000
	max	NaN	1.000000



Loading Data	df = pd.read_csv('C:/Users/lenovo/D	df = pd.read_csv('C:/Users/lenovo/Desktop/Unlocking_minds/dataset/mental_health.csv')		
	df.head()			
	label	preprocessed_text text_length		
	0 0 dear american teen q	uestion dutch person heard 19		
	1 1 nothing look forwar	rd lifei dont many reason ke 19		
		on looking expand playlist u 49		
		I betterthe reason still alive 82		
	4 1 worried year girl sul	bject domestic physicalmen 272		
Handling Missing Data	df.isnull().sum() text 0 label 0 dtype: int64			
Data Transformation	-			
Feature Engineering	Attached the codes	Attached the codes in final submission.		
Save Processed Data	<pre>import joblib import pickle try: # Load the model and vect with open('model.pkl', ' model = joblib.load(' with open('TfidfVectoriz tfidf_vectorizer = jo print("Model and vectori: except Exception as e: print(f"Error during load Model and vectorizer loaded :</pre>	<pre>rb') as f: f: er.pkl', 'rb') as f: oblib.load(f) zer loaded successfully!") ding: {e}")</pre>		