



## **Data Collection and Preprocessing Phase**

Date	Nov 30, 2024
Team ID	739891
Project Title	Unlocking the Minds: Analyzing Mental Health with NLP
Maximum Marks	6 Marks

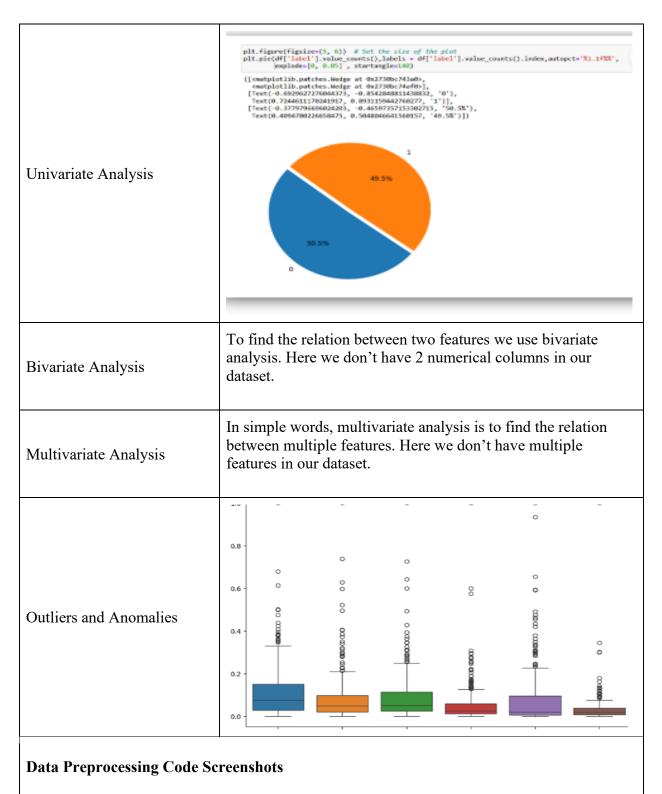
## **Data Exploration and Preprocessing Template**

Identifies data sources, assesses quality issues like missing values and duplicates, and implements resolution plans to ensure accurate and reliable analysis.

Section	Descript	Description				
		text	label			
Data Overview	0	dear american teens question dutch person hear	0			
	1	nothing look forward lifei dont many reasons k	1			
	2	music recommendations im looking expand playli	0			
	3	im done trying feel betterthe reason im still $\dots$	1			
	4	worried year old girl subject domestic physic	1			
	27972	posting everyday people stop caring religion	0			
	27973	okay definetly need hear guys opinion ive pret	0			
	27974	cant get dog think ill kill myselfthe last thi	1			
	27975	whats point princess bridei really think like	1			
	27976	got nudes person might might know snapchat do	0			
	27977	rows × 2 columns				











	14]: (	df-nd ne	ead_csv("mental_health.csv")			
		df	Lau_C3V( mental_nearth.c3V )			
	14]:		text	label		
Loading Data		0	dear american teens question dutch person hear	О		
		1	nothing look forward lifei dont many reasons k	1		
			music recommendations im looking expand playli	0		
		3	im done trying feel betterthe reason im still	1		
		4	worried year old girl subject domestic physic	1		
		•••		•••		
		27972	posting everyday people stop caring religion	0		
		27973	okay definetly need hear guys opinion ive pret	0		
		27974 27975	cant get dog think ill kill myselfthe last thi	1		
			whats point princess bridei really think like	0		
	1 '	<b>27976</b> g	got nudes person might might know snapchat do	0		
	2	7977 rov	vs × 2 columns			
	4.3	16 1	and had an analysis			
		dt.des	cribe(include='all')			
	1]:			text	label	
		count		27972	27972.000000	
		unique		27972	NaN	
		top	dear american teens question dutch pers	on hear	NaN	
		freq			NaN	
Handling Missing Data		mean std min 25%		NaN	0.494709	
				NaN	0.499981	
				NaN	0.000000	
				NaN	0.000000	
		50%			0.000000	
	75%			NaN	1.000000	
		max			1.000000	
Data Transformation	from sklearn.feature_extraction.text import TfidfVectorizer tf = TfidfVectorizer() data_vec = tf.fit_transform(df['preprocessed_text']) print(data_vec)  (0, 35255)					
Feature Engineering	Atta	ched	the codes in final submission			
Save Processed Data	-					