



Data Collection and Preprocessing Phase

Date	14 th July 2024
Team ID	739667
Project Title	Sentiment Analysis of Commodity News(Gold)
Maximum Marks	6 Marks

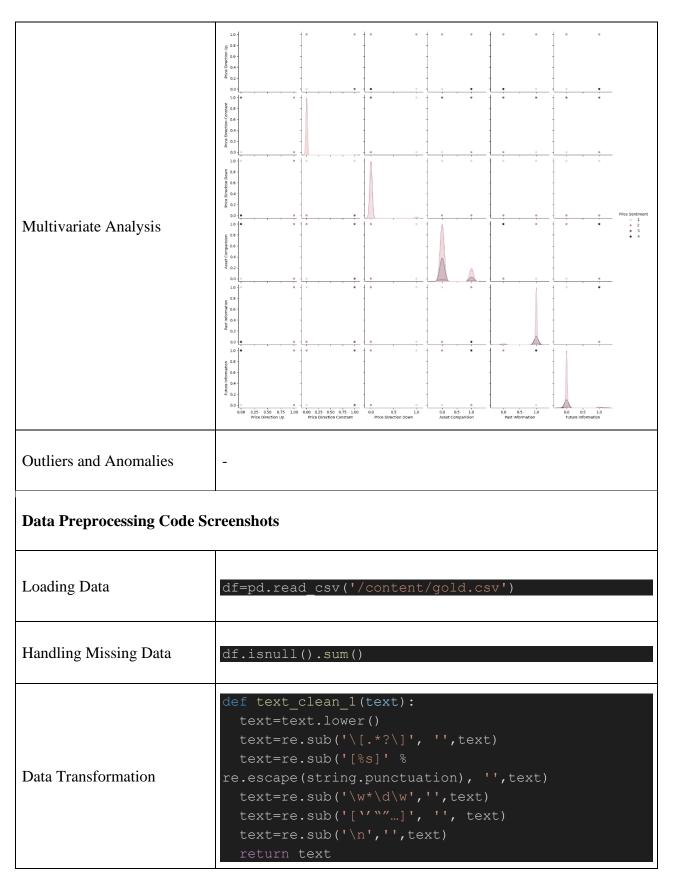
Data Exploration and Preprocessing Template

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

Section	Description										
Data Overview	Din	ens	ions: (10570,	10)							
	±*	Dates	URL	News	Price Direction Up	Price Direction	Price Direction Down	Asset Comparision	Past Information	Future	Price Sentiment
	count	10570	10570	10570	10570.000000	10570.000000	10570.000000	10570.000000	10570.000000	10570.00000	10570.000000
	unique	3761	10570	10570	NaN	NaN	NaN	NaN	NaN	NaN	NaN
	top	30-08- 2017	http://www.marketwatch.com/story/april- gold-do	april gold down 20 cents to settle at \$1,116.1	NaN	NaN	NaN	NaN	NaN	NaN	NaN
	freq	18	1	1	NaN	NaN	NaN	NaN	NaN	NaN	NaN
Univariate Analysis	mean	NaN NaN	NaN NaN	NaN NaN	0.417408	0.042006	0.370104	0.189309	0.969915	0.03018	2.047114
	std	NaN	NaN NaN	NaN NaN	0.493155	0.200612	0.482855	0.391773	0.170830	0.00000	1.067259
	25%	NaN	NaN	NaN	0.000000	0.000000	0.000000	0.000000	1.000000	0.00000	1.000000
	50%	NaN	NaN	NaN	0.000000	0.000000	0.000000	0.000000	1.000000	0.00000	2.000000
	75%	NaN	NaN	NaN	1.000000	0.000000	1.000000	0.000000	1.000000	0.00000	2.000000
	max	NaN	NaN	NaN	1.000000	1.000000	1.000000	1.000000	1.000000	1.00000	4.000000
									1	↓ © ⊞	• . H :
Bivariate Analysis	4000 - 3000 - 2000 -		Price Direction Up	Past Informa 0 1 1							











	<pre>Cleaned_News= lambda x: text_clean_1(x)</pre>
Feature Engineering	NA
Save Processed Data	<pre>import pickle pickle.dump(model,open('model.pkl','wb'))</pre>