**Data Collection and Preprocessing Phase**

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| Date | 14th July 2024 |
| Team ID | 739939 |
| 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.

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| **Section** | **Description** |
| Data Overview | Dimensions: (10570, 10) |
| Univariate Analysis |  |
| Bivariate Analysis |  |
| Multivariate Analysis |  |
| Outliers and Anomalies | - |
| **Data Preprocessing Code Screenshots** | |
| Loading Data | df=pd.read\_csv('/content/gold.csv') |
| Handling Missing Data | df.isnull().sum() |
| Data Transformation | def text\_clean\_1(text):    text=text.lower()    text=re.sub('\[.\*?\]', '',text)    text=re.sub('[%s]' % re.escape(string.punctuation), '',text)    text=re.sub('\w\*\d\w','',text)    text=re.sub('[‘’“”…]', '', text)    text=re.sub('\n','',text)    return text  Cleaned\_News= lambda x: text\_clean\_1(x) |
| Feature Engineering | NA |
| Save Processed Data | import pickle  pickle.dump(model,open('model.pkl','wb')) |