



## **Data Collection and Preprocessing Phase**

Date	10 JUNE 2024
Team ID	739968
Project Title	Movie Box Office Gross Prediction
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	Basic statistics, dimensions, and structure of the data.			
Univariate Analysis	Exploration of individual variables (mean, median, mode, etc.).			
Bivariate Analysis	Relationships between two variables (correlation, scatter plots).			
Multivariate Analysis	Patterns and relationships involving multiple variables.			
Outliers and Anomalies	Identification and treatment of outliers.			
Data Preprocessing Code Screenshots				
Loading Data	1. Reading the dataset  credits=pd.read_csv(r"dataset/tmdb_5000_credits.csv")  movies_df=pd.read_csv(r"dataset/tmdb_5000_movies.csv")			





Handling Missing Data	budget genres homepage id keywords original_language original_title overview popularity production_companies production_countries release_date revenue runtime spoken_languages status tagline title_x vote_average vote_count title_y cast director dtype: int64	## ()  ##
Save Processed Data	<pre>import pickle pickle.dump(mr,</pre>	open("m