



Data Collection and Preprocessing Phase

Date	18 June 2025
Team ID	SWTID1749880888
Project Title	Prosperity Prognosticator: Machine Learning for Startup Success Prediction
Maximum Marks	6 Marks

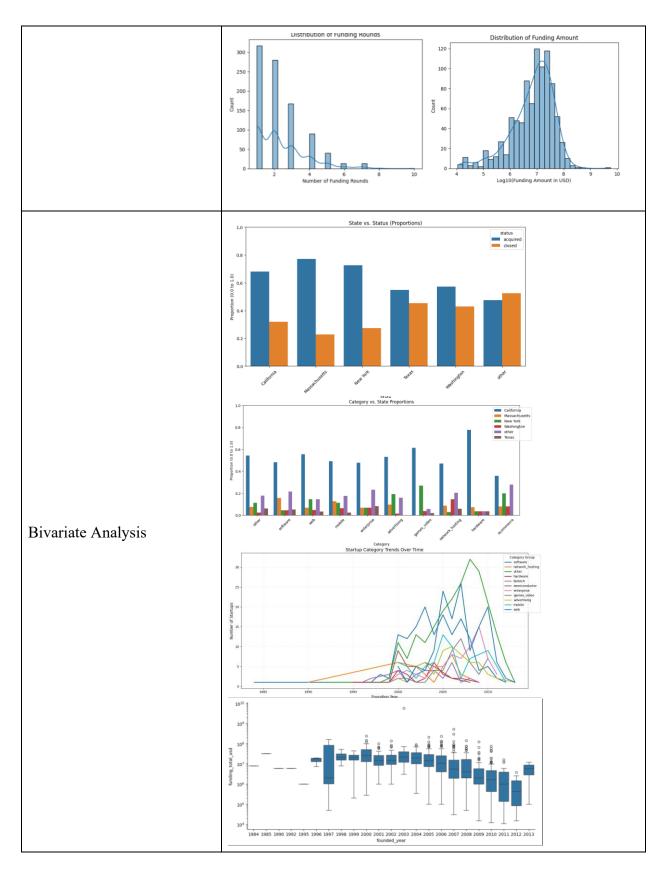
Data Exploration and Preprocessing Template

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	Dimension: 923 rows x 49 columns Descriptive Statistics:
Univariate Analysis	Distribution of Startups by Category Distribution of Startups by State California other 29.7% 16.6% 29.7% 15.6% 2.9% 3.7% bardware network_hosting games_video advertising New York Distribution of Startups by State California 17.6% 17.6% 17.6% Massachusetts New York

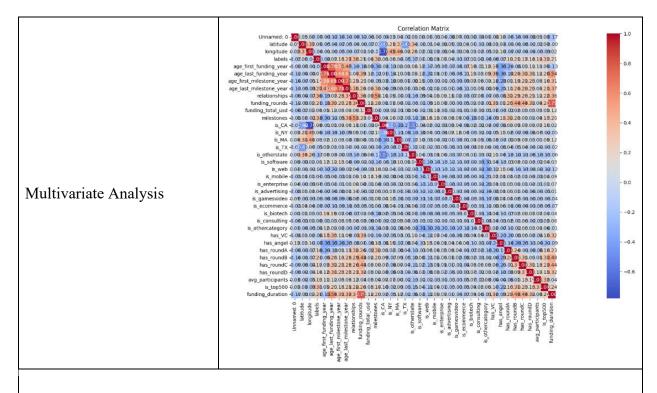




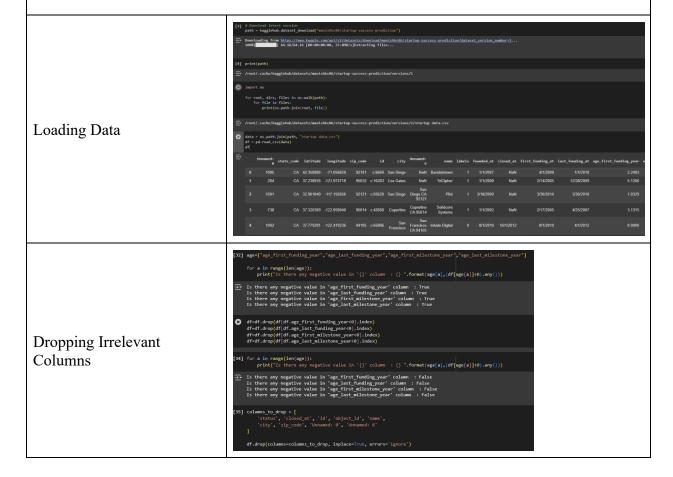








Data Preprocessing Code Screenshots







Feature Engineering	<pre># Select only the 7 features that will be displayed selected_features = ['funding_rounds', 'mlestones', 'rlationships', 'is_top500'p', 'funding_total_usd', 'has_rounds', 'avg_participants', 'labels'] df_selected = df[selected_features].copy() display(df_selected_head())</pre>									
	funding_rounds		elationships 3	is_top500 f	funding_total_usd 375000	has_roundB 0	avg_participants	labels		
	1 4				40100000		4.7500			
	2 1				2600000					
	3 3				40000000		3.3333			
	4 2	1	2	1	1300000	0	1.0000	0		
Save Processed Data	<pre># Save the DataFrame with selected features to a new CSV file output_filename = 'selected_features_data.csv' df_selected.to_csv(output_filename, index=False) print(f"\nDataFrame with selected features saved to '{output_filename}'") DataFrame with selected features saved to 'selected_features_data.csv'</pre>									