Project Name:	**Stock Market Predictor**
Module Name:	**Data processing**
Reference Document:	**If any**
Created by:	**Aaron R**
Date of creation:	**DD-MMM-YY**
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TEST CASE ID	TEST SCENARIO	TEST CASE	PRE-CONDITION	TEST STEPS	TEST DATA	EXPECTED RESULT	POST CONDITION	ACTUAL RESULT	STATUS (PASS/ FAIL)
TC_DC_01	Data Cleaning	Handling Missing Data	The dataset exists and is accessible. - There are missing values in the dataset.	1. Load the dataset with missing values 2.Apply the data cleaning process.	Dataset with missing values.	Missing values should be imputed or removed based on the defined strategy.	: A dataset without missing values.	Data eligible for model running	P
TC_DC_02	Data Transformation	Feature Scaling	- The dataset is loaded and cleaned. - The dataset contains numerical features and possibly categorical variables.	1. Apply feature scaling to the dataset.	Scaled dataset	Features should have a consistent scale (e.g., normalized or standardized)		Data eligible for model running	P
TC_DC_03	Encoding Categorical Variables	Encode categorical variables	- The dataset is loaded and cleaned. - The dataset contains numerical features and possibly categorical variables.	1. Encode categorical variables.	Dataset with categorical variable	Categorical variables should be converted into numerical representations (e.g., one-hot encoding).	Numerical dataset with encoded categorical variables.	Data eligible for model running	P
TC_DC_04	Feature Engineering	Feature Extraction	The dataset is cleaned and transformed. - Domain knowledge or analysis has identified potential relevant features.	1. Extract relevant features.	Original dataset	Reduced dimensionality dataset with important features.		Data eligible for model running	P
TC_DC_05	Data Splitting	Train-Test Split	The dataset is imbalanced. - The data split has been performed (Scenario 4.	1. Split the dataset into training and testing	Preprocessed dataset.	Two disjoint subsets for model tr		Data eligible for model running	P
TC_DC_06	Data Preprocessing Pipelin	Full Preprocessing Pipeli	The raw dataset is available. - Data cleaning, transformation, and, if necessar	1. Execute the complete preprocessing pip	Raw dataset.	Preprocessed dataset ready for		Data eligible for model running	P

Preprocessed dataset ready for model training.