



Data Collection and Preprocessing Phase

Date	15 July 2024
Team ID	SWTID1720108643
Project Title	Garment Worker Productivity Prediction
Maximum Marks	6 Marks

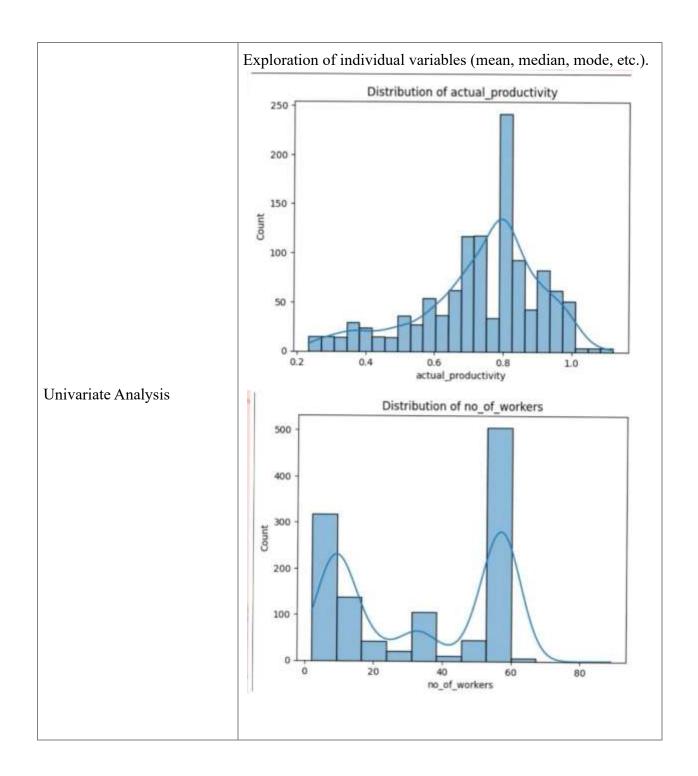
Data Exploration and Preprocessing Template

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	The Shape of the Data Frame: (1197, 13) It consists of 1197 Rows and 13 Columns.		
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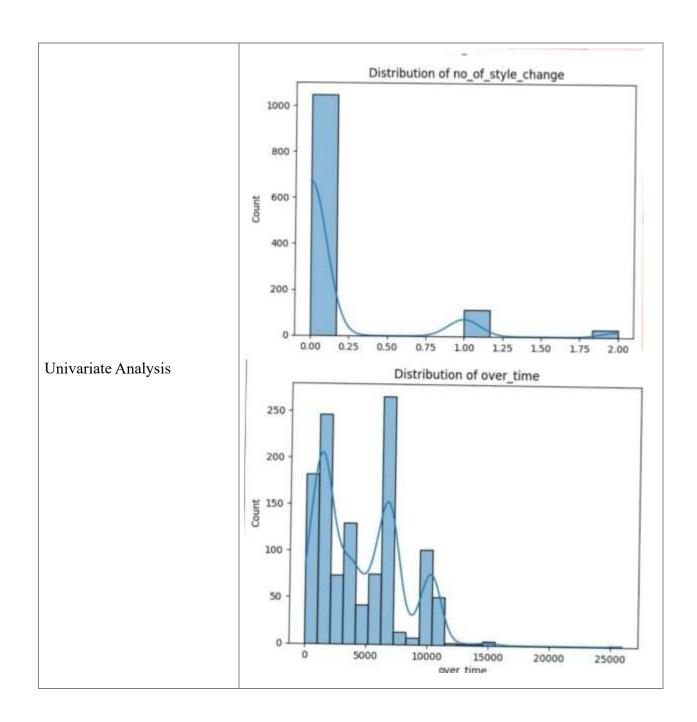






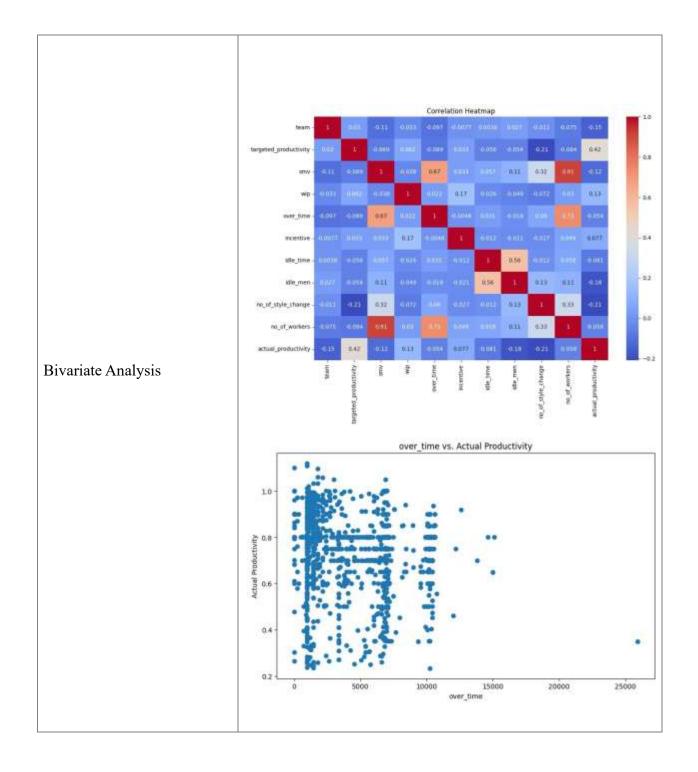












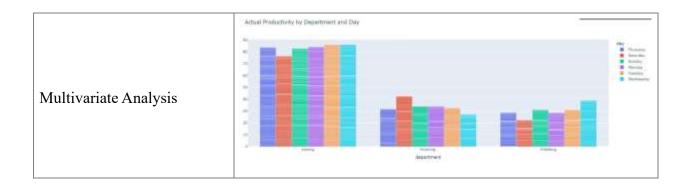






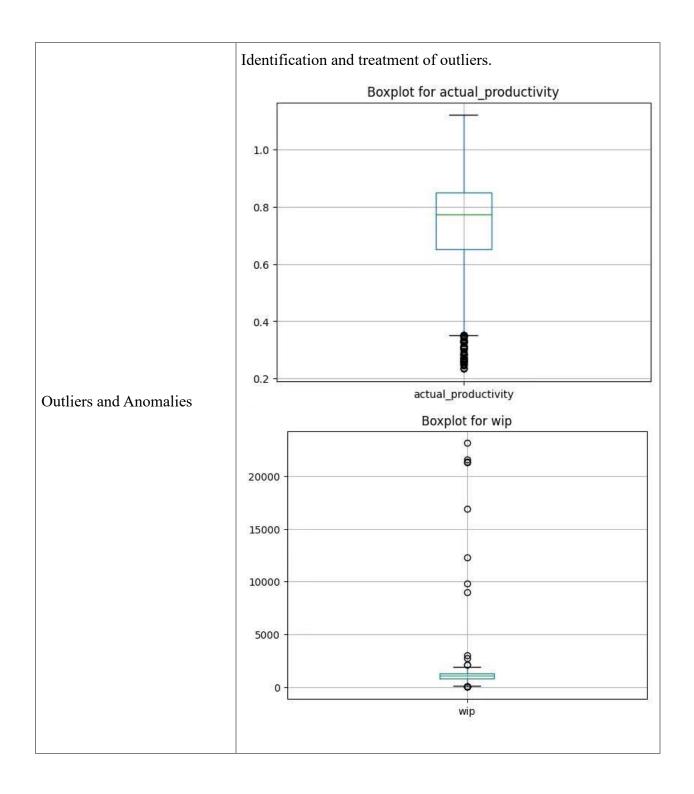








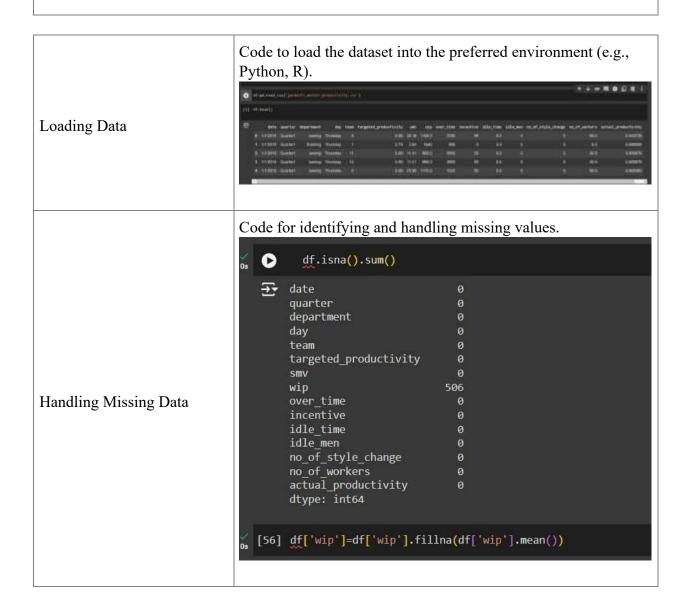








Data Preprocessing Code Screenshots







	Code for transforming variables (scaling, normalization).
	"from sklearn.preprocessing import StandardScaler, MinMaxScaler
Data Transformation	scaler = StandardScaler() numerical_features = ['smv', 'wip', 'over_time', 'incentive', 'idle_time', 'idle_men', 'no_of_style_change', 'no_of_workers'] df[numerical_features] = scaler.fit_transform(df[numerical_features])
	df.head()" The second of the second position of the second position of the second position of the second second second second position of the second
Feature Engineering	Code for creating new features or modifying existing ones. df['efficiency'] - df['actual_productivity'] / df['cov'] median_overtime - df['over_time']_median() df['covr_time_category'] - df['over_time']_median() print(df[['efficiency', 'over_time_category']]_head()) efficiency over_time_category 0.027232





Save Processed Data

Code to save the cleaned and processed data for future use.

df.to_csv('preprocessed_data.csv', index=False)