



## **Data Collection and Preprocessing Phase**

Date	24 June 2025
Team ID	SWUID20250176209
Project Title	Machine Learning Approach for Employee Performance Prediction
Maximum Marks	6 Marks

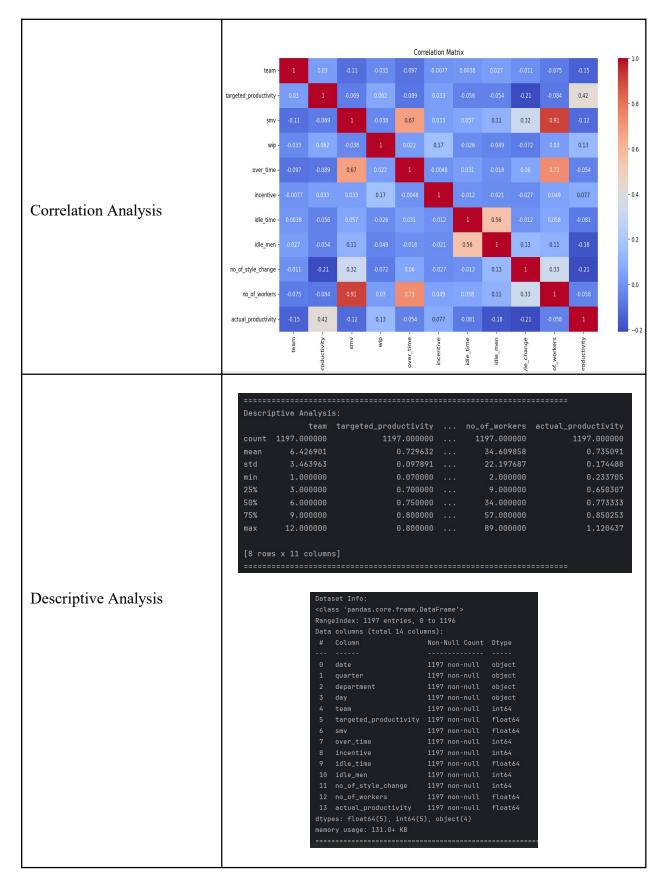
## **Data Exploration and Preprocessing Report**

Dataset variables will be statistically analyzed to identify patterns and outliers, with Python employed for preprocessing tasks like normalization and feature engineering. Data cleaning will address missing values and outliers, ensuring quality for subsequent analysis and modeling, and forming a strong foundation for insights and predictions.

Section	Description
<b>Section</b> Data Overview	Dimension:   1,197 rows × 15 columns   Descriptive statistics:
	25 01-03-2015 Quarter   Frinishing Saturday 1 0.8 3.94 960 0 0 0 0 0 8 0.9029167 26 01-03-2015 Quarter   sweing Saturday 1 0.8 28.08 772 6300 50 0 0 0 56.5 0.8007253 27 01-03-2015 Quarter   sweing Saturday 3 0.8 28.08 913 6540 50 0 0 54.5 0.8003229
	28         01-03-2015 Quarter1         sweing         Saturday         8         0.8         26.16         1261         7080         50         0         0         0         59         0.8003186           29         01-03-2015 Quarter1         sweing         Saturday         12         0.8         26.16         844         7080         63         0         0         0         59         0.8003186           30         01-03-2015 Quarter1         sweing         Saturday         11         0.8         11.61         1005         7080         50         0         0         0         29.5         0.8002373
	31 01-03-2015 Quarter1 sweing Saturday 5 0.8 11.61 659 7080 50 0 0 0 31.5 0.8001486











Outliers and Anomalies	-	
Data Preprocessing Code Screenshots		
Loading Data	<pre># Reading .csv file: df = pd.read_csv('garments_worker_productivity.csv') print("Dataset:") print(df)</pre>	
Handling Missing Data	<pre># Checking for Null Values: print("Null Value Count:") print(df.isnull().sum())  # Dropping Feature with missing values: df.drop(columns=['wip'], inplace=True) print("Remaining columns after dropping 'wip':\n") print(df.columns)</pre>	
Save Processed Data	- Task Completed	