



## **Data Collection and Preprocessing Phase**

Date	15 March 2024
Team ID	SWTID1720673861
Project Title	Garment Worker efficiency Calculator
Maximum Marks	6 Marks

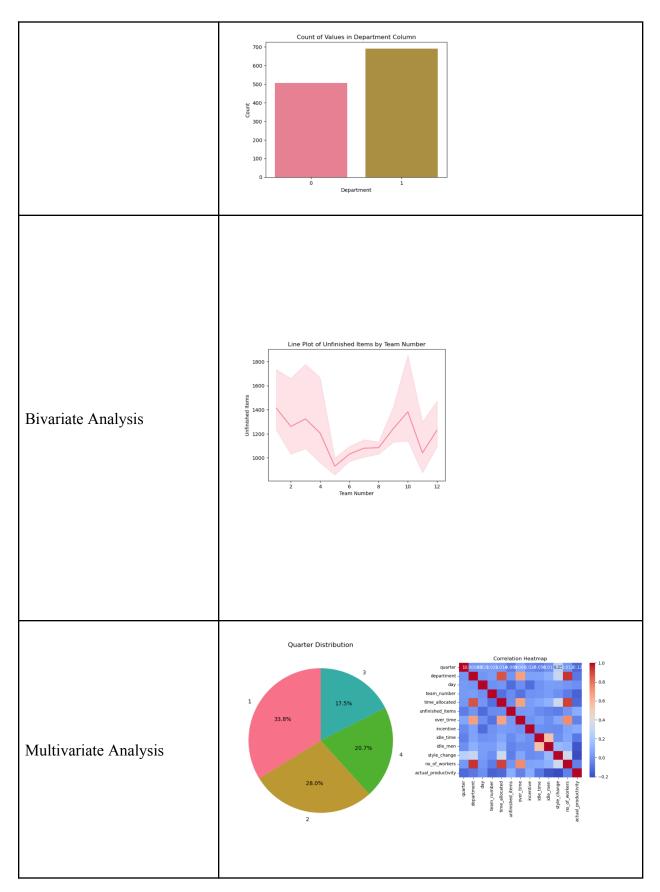
## **Data Exploration and Preprocessing Report**

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
Data Overview	Dimension:   1197 rows × 15 columns
Univariate Analysis	











Outliers and Anomalies	-
<b>Data Preprocessing Code</b>	Screenshots
Loading Data	In [31]: # Load the dataset file_path = n'c:\Users\grahv\OneDrive\Desktop\AlwithTensorflow Project\garments_worker_productivity.csv' df = pd.read_csv(file_path)  In [32]: # df.head()  Out[32]: # date
Handling Missing Data	<pre>In [84]:  df['team_number'] = dff['team_number'].astype(int)     dff 'over_time'] = dff['over_time'].astype(int)     dff 'sincentive'] = dff['side_time'] = dff'side_time'].astype(int)     dff'side_time'] = dff'side_time'].astype(int)     dff'side_time'] = dff'side_time'].astype(int)     dff'time_allocated'] = dff'time_allocated'].astype(int)     dff'time_allocated'] = dff'time_allocated'].astype(int)     dff'unfinished_iteme'] = dff'unfinished_iteme'].astype(int)     dff'ino_of_workers'] = dff'ino_of_workers'].astype(int)     x_test['quarter'] = x_test['quarter'].astype('category')  In [43]:  lc = LabelEncoder()</pre>
Data Transformation	In [64]:   print("sefror encoding", off: department").inique())
Feature Engineering	Attached the codes in final submission.
Save Processed Data	-