Data Collection and Preprocessing Phase

Date: 31 July 2025

SkillWallet ID: SWUID20240141492

Project Title: Employee Performance Prediction using Machine Learning

Maximum Marks: 2 Marks

Data Quality Report:

The Data Quality Report highlights issues in the dataset sourced from Kaggle (Garment Worker Productivity Dataset). It includes identified issues, their severity, and proposed resolution plans to ensure data consistency and quality for model development.

Data Source	Data Quality Issue	Severity	Resolution Plan
Kaggle Dataset	Missing values in idle_time, idle_men, and incentive columns	Moderate	Use mean/median imputation for numerical fields.
Kaggle Dataset	Presence of categorical variables such as department, day, and quarter	Moderate	Apply Label Encoding or One- Hot Encoding .
Kaggle Dataset	Outliers in over_time and no_of_style_change columns	High	Apply IQR (Interquartile Range) method to handle outliers.
Kaggle Dataset	Variations in targeted_productivity values due to scaling issues	Low	Normalize or standardize the feature.
Kaggle Dataset	Mixed data formats in month column (text and numbers)	Low	Convert all month values to a uniform numeric format .