Project Design Phase-I
Solution Architecture

Date	23 October 2023
Team ID	Team-592545
Project Name	Garment Worker Productivity Prediction
Maximum Mark	4

Solution Architecture:

It optimizes the productivity prediction process by leveraging ANN, Linear regression and Random Forest. ANN enables complex pattern recognition and non-linear relationships to predict worker productivity, considering various interconnected factors in the production process. Linear regression is used to help identify the linear relationship between input variables and worker productivity, providing insights into how changes in specific variables impact productivity. Random Forest offers an ensemble learning method that leverages multiple decision trees, allowing for the analysis of various factors simultaneously and providing robust predictions for worker productivity.

Our solution leverages Artificial Neural Networks (ANN),Linear regression and Random Forest to address the garment worker productivity problem effectively.

- Data Gathering
- Data Pre-processing
- Model Building
- Garment Worker Productivity Prediction
- Real Time Analysis

Solution Architecture Diagram