Review of Literature

1. Artificial Intelligence for warehouse picking optimization – An NP-Hard Problem

Louis *et al* (2019) have stated that warehouse picking optimization was done by deep learning and linear regression and approximately 15% improvement was achieved. The warehouse operational log data are used.

1. Improve 3pl warehouse

Alessandro *et al* (2020) have reported that grouping product families to processing resources. K-means, Gaussian and hierarchical clusters are used for classifying the product families scenarios with hyper parameters and results are compared with logistic benchmark-automatic industry.

1. A Comprehensive Review of warehouse operational issues

Bhavin et al (2019) have explained that the importance of performance measures which affects each warehouse functionality and overall productivity. They also provided the the proposed gaps for future research.

1. Literature review on machine learning in supply chain management

Wenzel *et al* (2019) has examined that the usage of machine learning in supply chain

1. Recognizing grabbing actions from inertial and video sensor data in a warehouse scenario

Alexander *et al* (2017) have examined that supervised learning will help to reduce the wrong items picking for orders with smartwatch and data glass. The paper analyzes the classification of grabbing actions and the F measure is 83%. The early identification of wrong item picking will save the cost of warehouse maintenance

1. Route learning: a machine learning-based approach to infer constrained customers in delivery routes

Andr *et at(2019)* have reported thatthe routing learning based on transactional data and showed graphical model by probabilistic using Hibbs sampling for inference. They have solved the gap between route planning and execution

1. Artificial Intelligence in Supply Chains

Samir (2019) has examined that