INTERNSHIP: STUDENT DAILY REPORT

Name Of the Student	Govind S
Internship Project Topic	Forecasting System - Project Demand of Products at a Retail Outlet Based on Historical Data
Name of the Organization	TCSiON
Name of the Industry Mentor	Debashis Roy
Name of the Institute	ICT Academy of Kerala

Date	Day #	Hours Spent
30 April 2023	**12**	**5.5**

Activities done during the day:

1. There where some anomalies in the data like; sales drop down to 0 on every 25th December as the stores had holiday or they where closed. These were noted down along with work file as part of documentation.

2. With reference to the materials referred as part of Time-series-forecasting, Seasonal Decomposition plot were plotted for checking if the data is Seasonal or Non-Seasonal. Hence it was observed the 3 categorical data's Mean Monthly and Weekly ('MS', 'W' resample technique) sales decomposition plot shows seasonality in them (repeating that ups and downs of sales along the period).

3. Then Stationarity was checked using Augmented Dickey Fuller Test (Statistical Test to prove whether the data is Stationary or Not). As a result, it was found Drinks and Food Sales Data is Stationary whereas Fast Moving Consumer Goods and Other Sales Data is Non-Stationary.