INTERNSHIP: STUDENT DAILY REPORT

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| Name of the Student | Vivek kumar Shriwas |
| Internship Project Topic | TCS iON RIO-125: Forecasting System - Project Demand of Products at a Retail Outlet Based on Historical Data |
| Name of the Organization | TCS iON |
| Name of the Industry Mentor | Sreekathiayini Ruthraiyah |
| Name of the Institute | Viswakarma University |

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| Date | Day | Hours Spent |
| 19/07/2023 | Day 2 | 4 hours and 10 minutes |
| Description:  **Self-learning Duration : 4hours**  **Activity Report Duration : 10 minutes**  **Activities:**   1. **Exploring Time Series Data (2 hours):**    * Researched and gathered various time series datasets for practice.    * Learned about the importance of time series data in forecasting.    * Explored different types of time series patterns and anomalies. 2. **Implementing Data Preprocessing (1 hour):**    * Investigated techniques for handling missing data in time series.    * Explored methods to handle outliers and anomalies in time series data.    * Learned about resampling techniques to adjust time intervals. 3. **Reviewing ARIMA Modeling (45 minutes):**    * Revised the fundamentals of Autoregressive Integrated Moving Average (ARIMA) models.    * Explored different orders of differencing and its impact on model stationarity.    * Understood the importance of ACF and PACF plots in determining ARIMA parameters. 4. **Documenting Day 2's Activities (25 minutes):**    * Compiled detailed notes on today's tasks, including code snippets and references.    * Organized the documentation for easy reference in the future.   **Challenges:** Encountered challenges while implementing data preprocessing techniques, particularly in handling irregular time intervals. | | |