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| Name Of The Student | Lavannya Sandeep Rautal |
| 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 |
| Name of the Industry Mentor |  |
| Name of the Institute | Vishwakarma University |

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| Date: 3/08/2023 | Day 18 | Hours Spent:3:15 hours |
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| Activities done during the day:  Day 18 marked a pivotal phase in the project's progress. In the first hour, I diligently reviewed and optimized the Exponential Smoothing model's codebase, ensuring that it adhered to best coding practices.  In the second hour, I conducted an extended training session for the model, allowing it to further refine its understanding of historical sales data and adapt to complex patterns and seasonality.  The third hour was dedicated to hyperparameter tuning, an iterative process aimed at identifying the optimal combination of alpha, beta, and gamma values to achieve the highest level of forecasting accuracy.  Day 18 represented a significant milestone in the project's development. The codebase was robust, and the model had undergone extensive training. The ongoing hyperparameter tuning process was essential to fine-tuning the model for superior forecasting results. | | |