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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:1/08/2023 | Day 16 | Hours Spent: 2 hours |
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| Activities done during the day:  Day 16 represented a critical phase in the project's development. In the first hour, I meticulously reviewed and optimized the codebase for the Exponential Smoothing model, ensuring that it was both efficient and maintainable.  In the second hour, I conducted an extended training session for the model. This allowed it to learn from the historical sales data, capturing complex patterns and seasonality.  Then I was dedicated to hyperparameter tuning, an iterative process aimed at identifying the optimal combination of alpha, beta, and gamma values to produce the most accurate predictions.  Day 16 showcased the continuous refinement of the project. The model's codebase was solidified, and it had undergone extensive training. Hyperparameter tuning remained an essential aspect of achieving the highest level of forecasting precision. | | |