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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: 4/08/2023 | Day 19 | Hours Spent: 3:30 hours |
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| Activities done during the day:  On Day 19, I continued my focused efforts on enhancing the Exponential Smoothing model. The first hour was dedicated to code review and optimization, ensuring that the codebase was efficient and well-structured.  In the second hour, I conducted an extended training session for the model, allowing it to further refine its understanding of historical sales data, intricate patterns, and complex seasonality.  The third hour was once again focused on hyperparameter tuning. I systematically tested various combinations of alpha, beta, and gamma values, analyzing their impact on the model's predictive accuracy.  Day 19 marked a significant stage in the project's development. The codebase was solidified, and the model had undergone extensive training. The hyperparameter tuning process remained central to achieving the best forecasting results. | | |