**Model Development Phase Template**

| Date | July 2024 |
| --- | --- |
| Team ID | 740053 |
| Project Title | Estimating the Stock keeping units using Machine Learning |
| Maximum Marks | 10 Marks |

**Initial Model Training Code, Model Validation and Evaluation Report**

The initial model training code will be showcased in the future through a screenshot. The model validation and evaluation report will include a summary and training and validation performance metrics for multiple models, presented through respective screenshots.

**Initial Model Training Code (5 marks):**

Paste the screenshot of the model training code

**Model Validation and Evaluation Report (5 marks):**

| **Model** | **Summary** | **Training and Validation Performance Metrics** |
| --- | --- | --- |
| Model 1 | Linear regression model typically include mean square error,R2 score to evaluate its predictive performance and generalization capability. | C:\Users\home\AppData\Local\Packages\Microsoft.Windows.Photos_8wekyb3d8bbwe\TempState\ShareServiceTempFolder\screenshot11.jpeg |
| Model 2 | Random forest regression model often encompass mean square error, recall, R2 score to measure its prediction quality and robustness. | C:\Users\home\AppData\Local\Packages\Microsoft.Windows.Photos_8wekyb3d8bbwe\TempState\ShareServiceTempFolder\screenshot12.jpeg |
| Model 3 | Decision tree regression model commonly include accuracy, precision, recall, R2 score which help assess the model's prediction accuracy and generalizability. | C:\Users\home\AppData\Local\Packages\Microsoft.Windows.Photos_8wekyb3d8bbwe\TempState\ShareServiceTempFolder\screenshot13.jpeg |