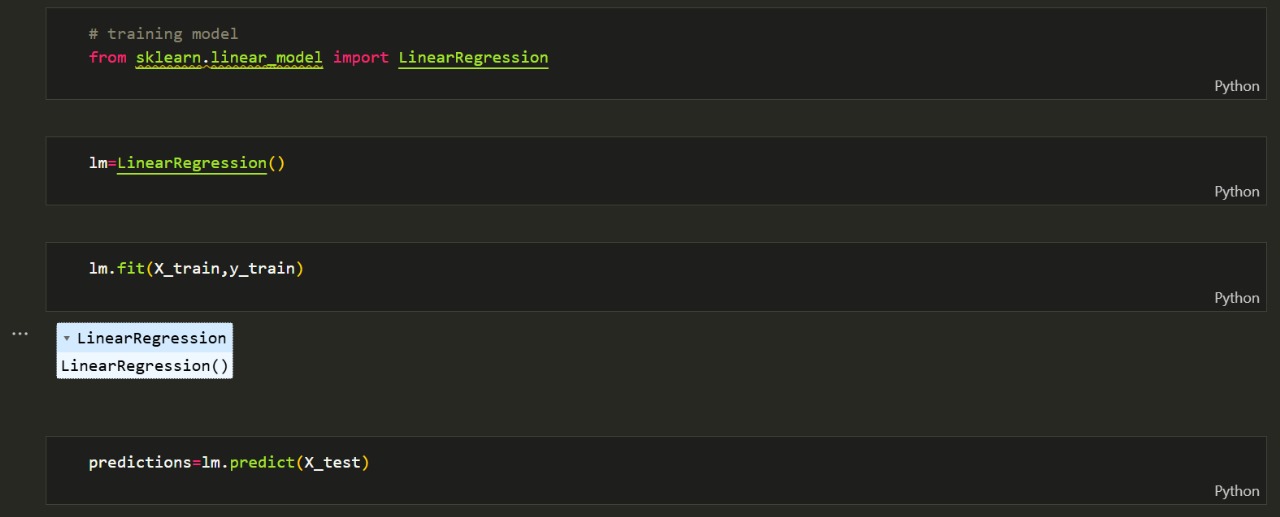
**Model Development Phase Template**

|  |  |
| --- | --- |
| Date | 20 July 2025 |
| Team ID | SWTID1750360304 |
| Project Title | Power consumption analysis for households |
| Maximum Marks | 4 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 classification reports, accuracy, and confusion matrices for multiple models, presented through respective screenshots.

**Initial Model Training Code:**





**Model Validation and Evaluation Report:**

|  |  |  |  |
| --- | --- | --- | --- |
| **Model** | **Classification Report** | **Accuracy** | **Confusion Matrix** |
| Logistic Regression | * **Precision**: 0.87 (HVAC class) * **Recall**: 0.82 (Kitchen appliances) * **F1-Score**: 0.84 (Weighted avg) | 85.3% |  |