**Model Development Phase Template**

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| Date | 3 July 2025 |
| Team ID | SWTID1749727925 |
| Project Title | E-Adapt: Predicting Student Adaptability in Online Classes |
| 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.

**Model Validation and Evaluation Report:**

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| --- | --- | --- | --- |
| **Model** | **Classification Report** | **Accuracy** | **Confusion Matrix** |
| Random Forest |  | 0.8797 |  |
| Logistic Regression | 0.7120 |  |
| Decision Tree | 0.8689 |  |
| Catboost | 0.8174 |  |
| Xgboost | 0.8415 |  |
| Tuned\_Catboost |  | 0.8754 |  |
| Tuned\_Xgboost | 0.838 |  |