**Model Development Phase Template**

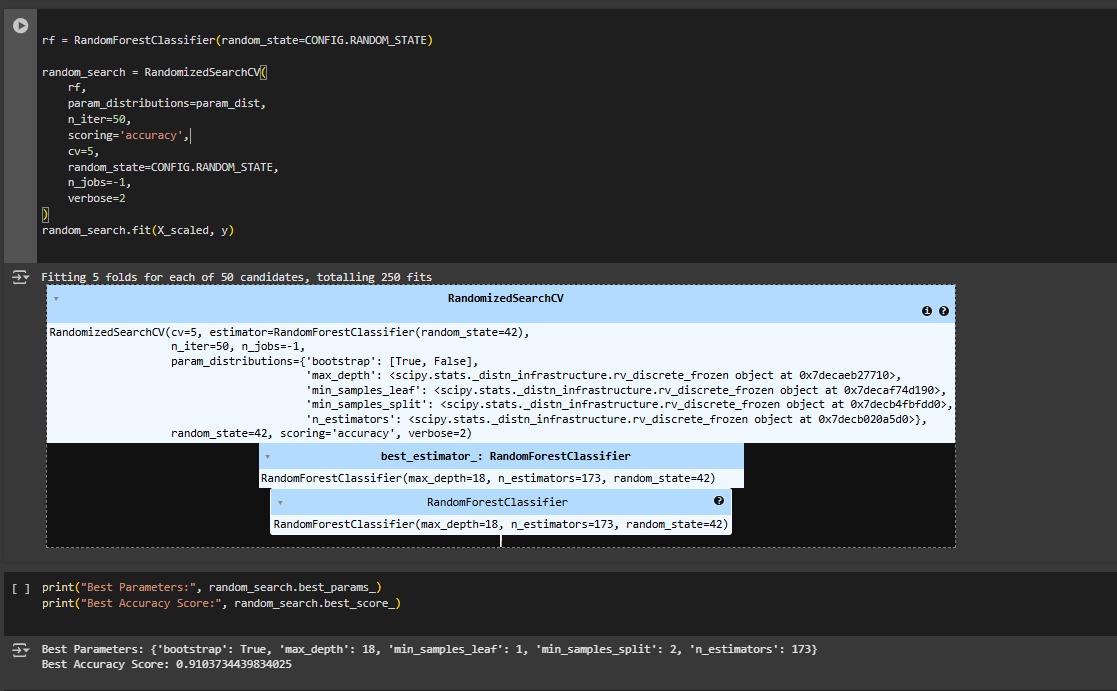
|  |  |
| --- | --- |
| Date | 4 July 2025 |
| Team ID | SWTID1749727925 |
| Project Title | E-Adapt: Predicting Student Adaptability in Online Classes |
| Maximum Marks | 6 Marks |

**Model Selection Report**

In the forthcoming Model Selection Report, various models will be outlined, detailing their descriptions, hyperparameters, and performance metrics, including Accuracy or F1 Score. This comprehensive report will provide insights into the chosen models and their effectiveness.

**Model Selection Report:**

|  |  |  |  |
| --- | --- | --- | --- |
| **Model** | **Description** | **Hyperparameters** | **Performance Metric (e.g., Accuracy, F1 Score)** |
| Random Forest Classifier | Random Forest with 173 trees, max depth 18, bootstrap sampling, min leaf=1, min split=2; Accuracy: 91%, F1 score: 0.89. | 'bootstrap': True, 'max\_depth', 'min\_samples\_leaf', 'min\_samples\_split', 'n\_estimators' | Accuracy:0.9103734439834025  F1 score: 0.89 |

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