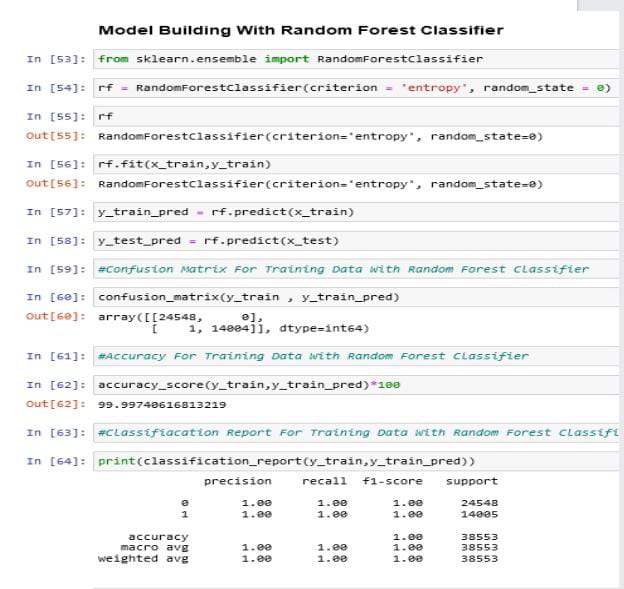
**Model Development Phase Template**

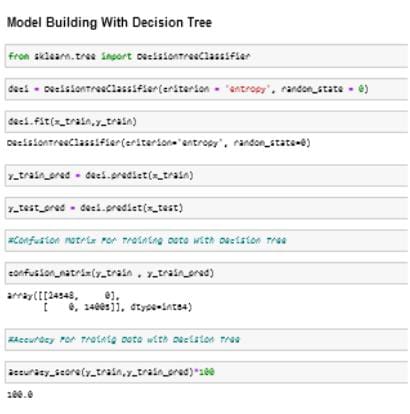
|  |  |
| --- | --- |
| Date | 21 June 2024 |
| Team ID | 740037 |
| Project Title | Estimating Presence or Absence of Smoking through bio signals |
| Maximum Marks | 4 Marks |

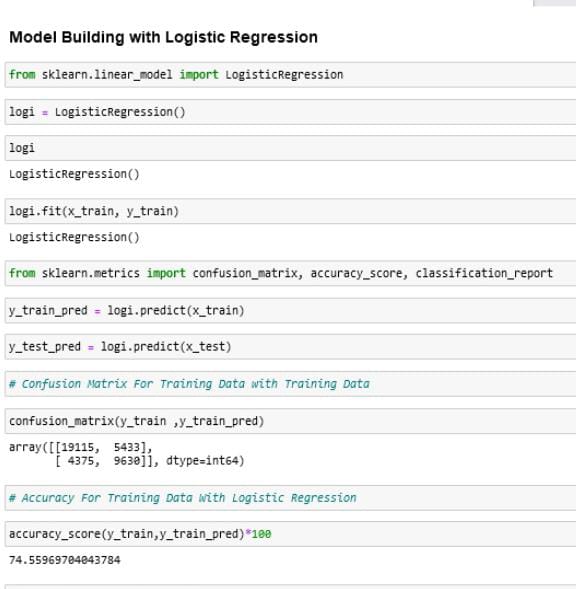
**Initial Model Training Code, Model Validation and Evaluation Report**

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** |
| Random forest classifier |  | 69% |  |
| Decision tree |  | 64% |  |
| Logistic Regression  Gradient  Boosting |  | 76.4%  75% |  |