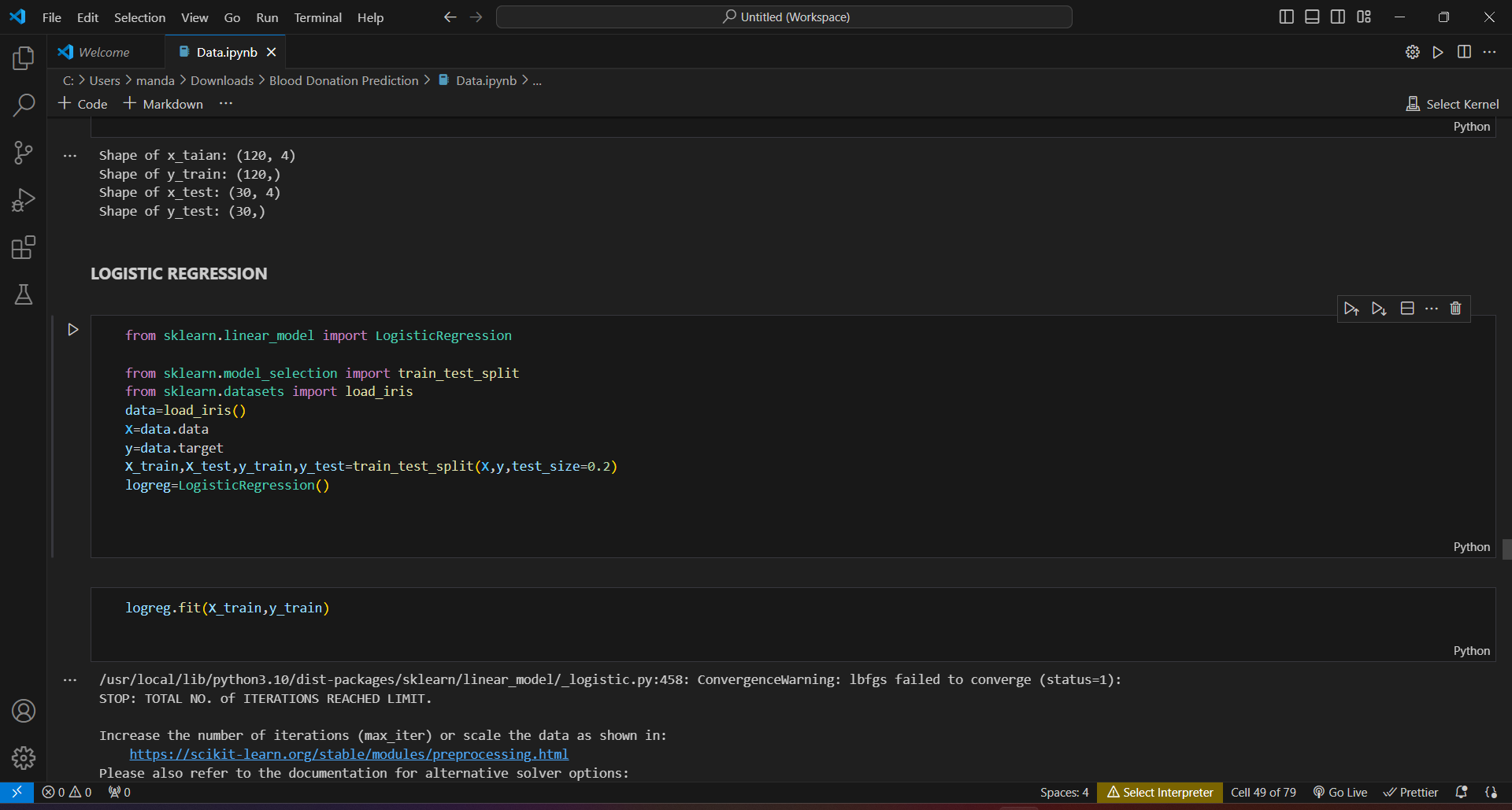
**Model Development Phase Template**

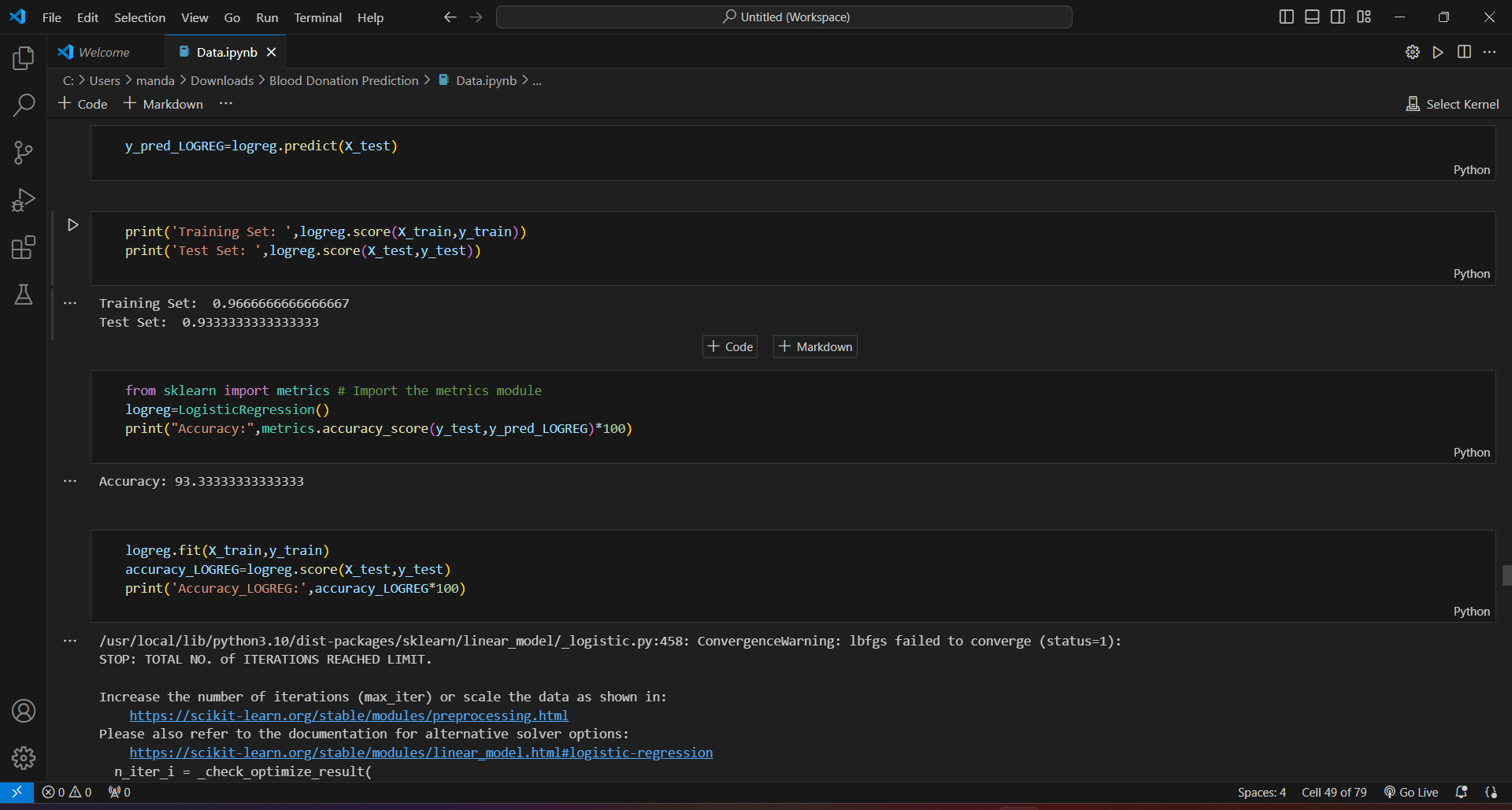
|  |  |
| --- | --- |
| Date | 14 July 2024 |
| Team ID | 739963 |
| Project Title | Blood Donation Prediction |
| Maximum Marks | 4 Marks |

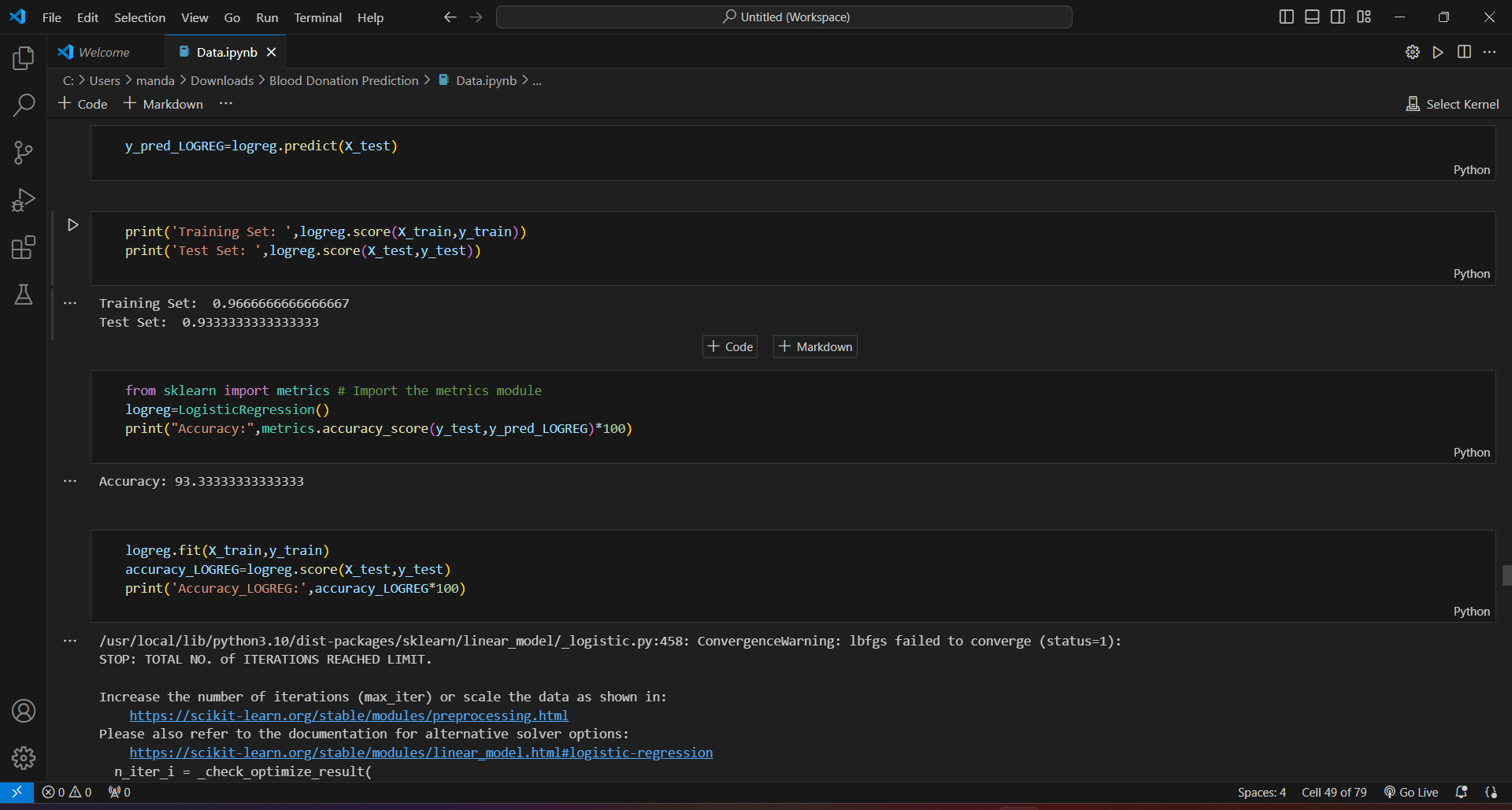
**Initial Model Training Code, Model Validation and Evaluation Report**

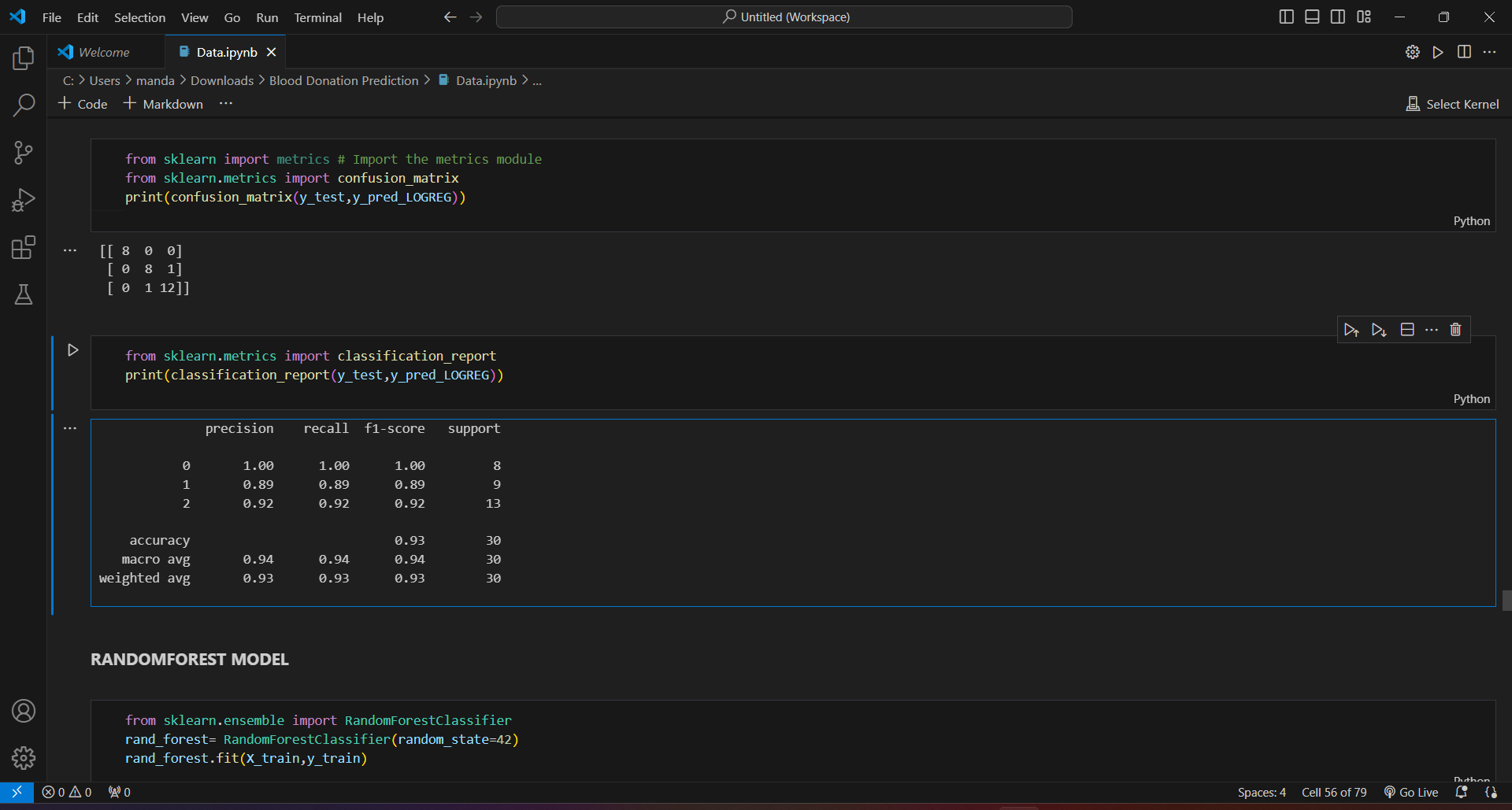
The initial model training code will be showcased in the future through a screenshot. The model validation and evaluation report will include classification reports, accuracy, and confusion matrices for multiple models, presented through respective screenshots.

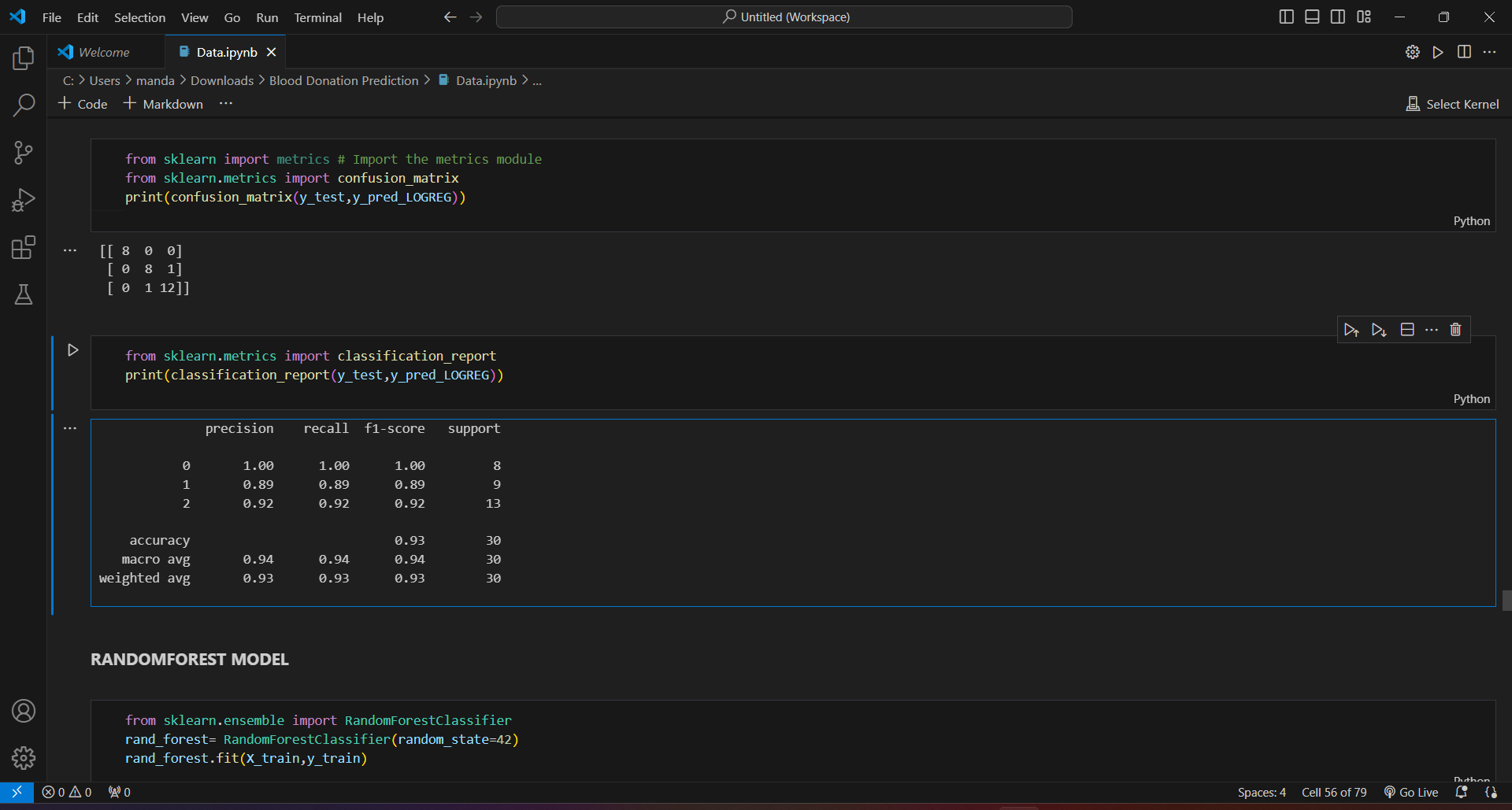
**Initial Model Training Code:**

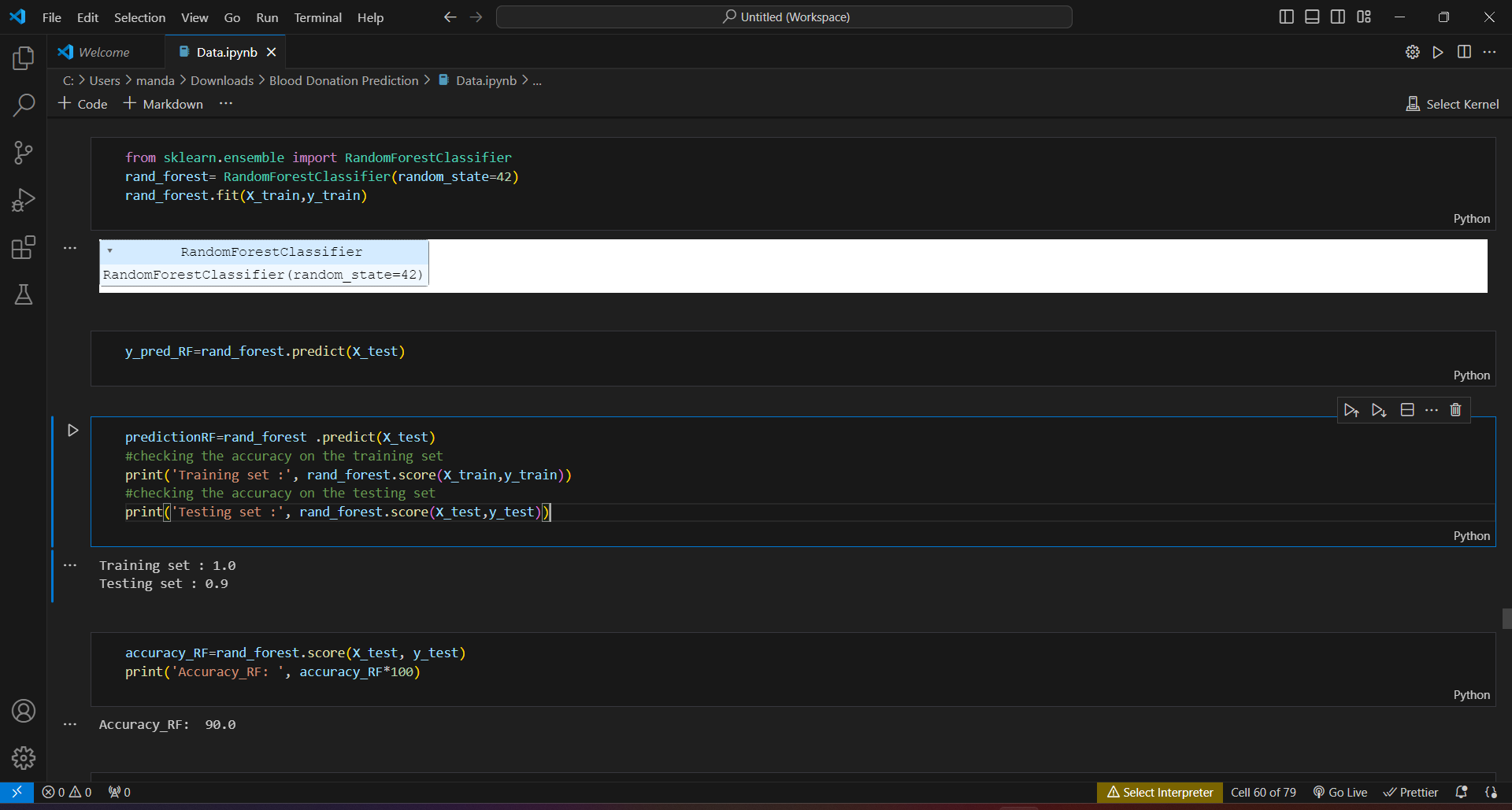
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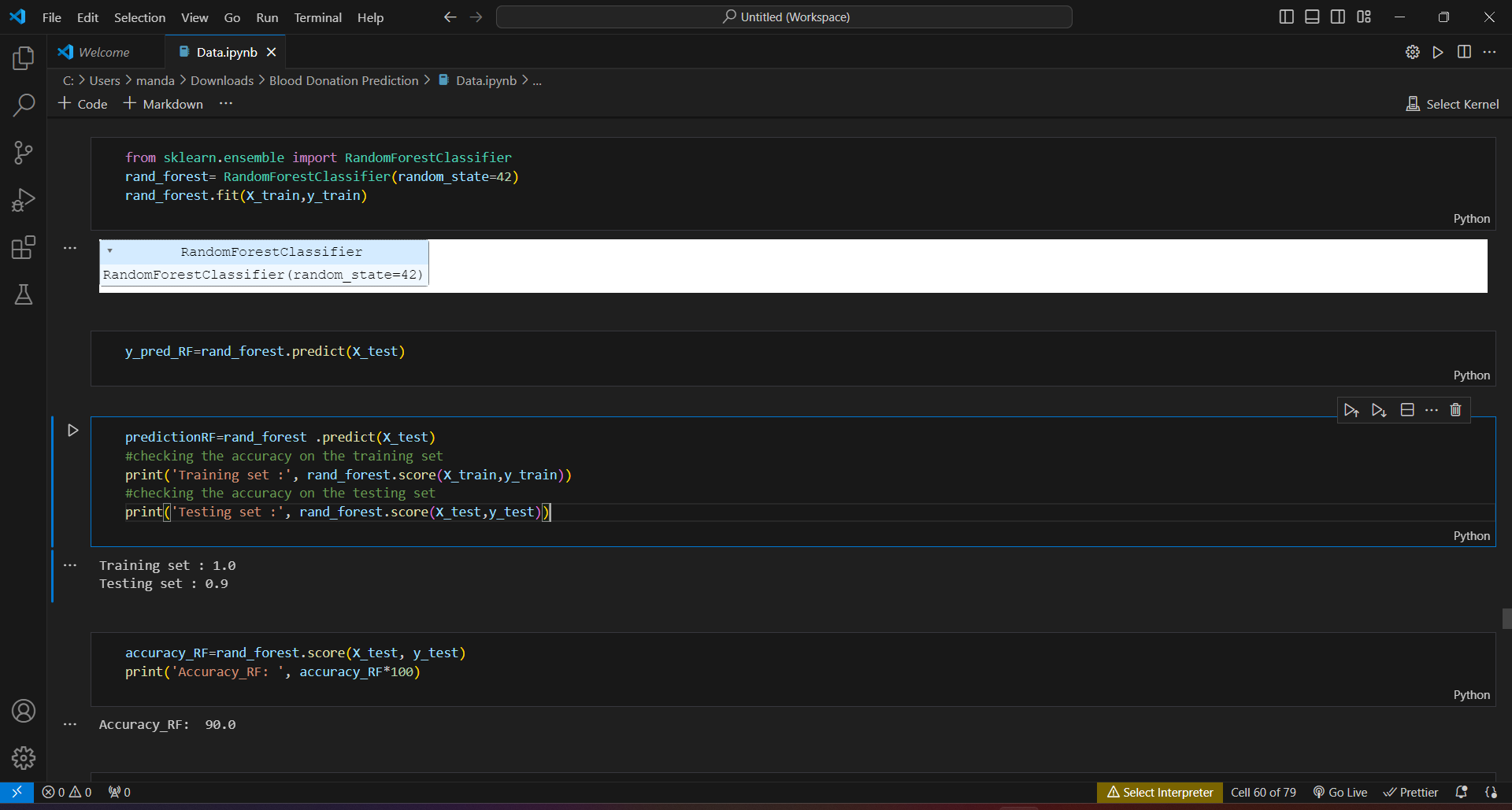


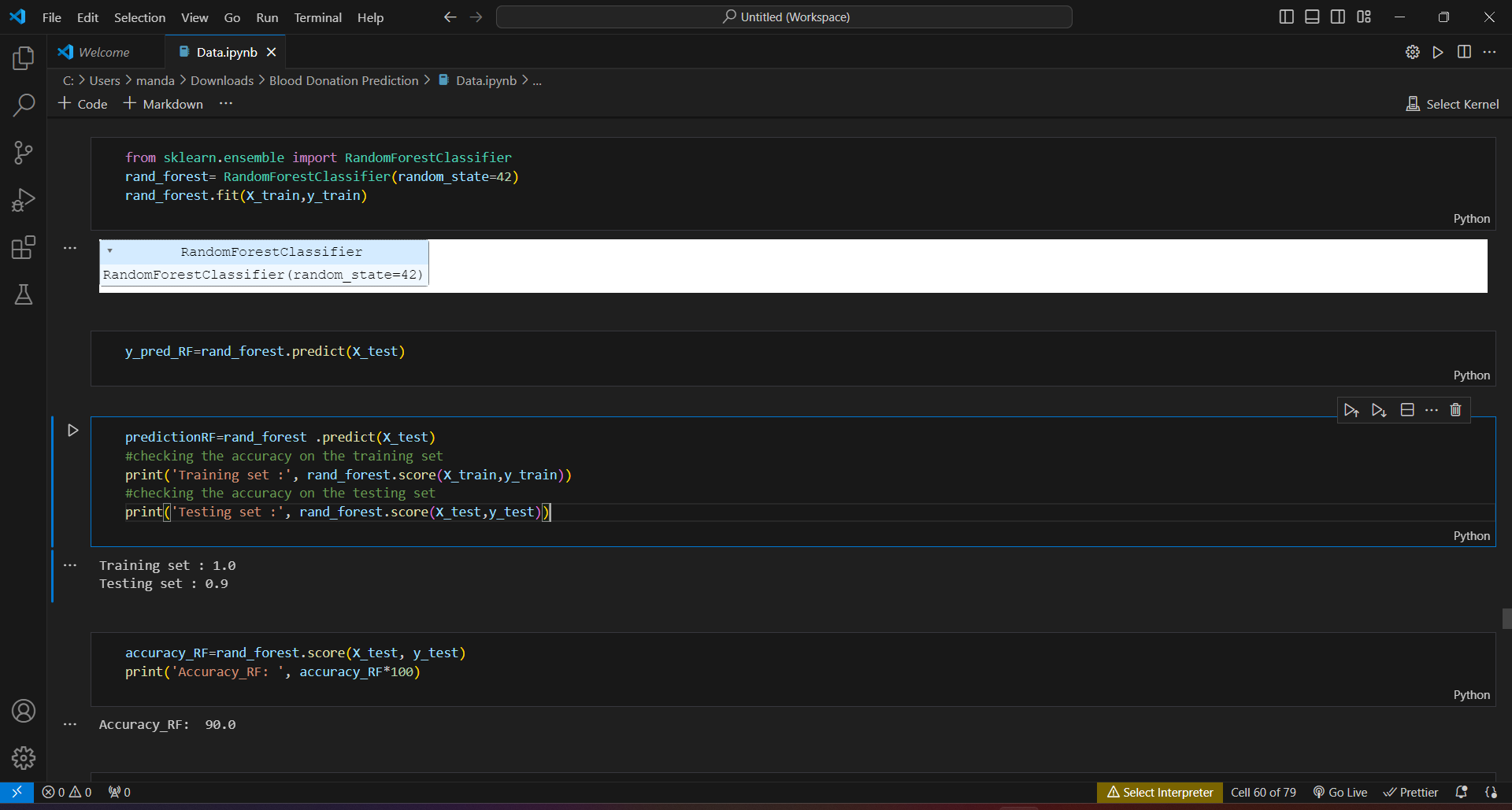


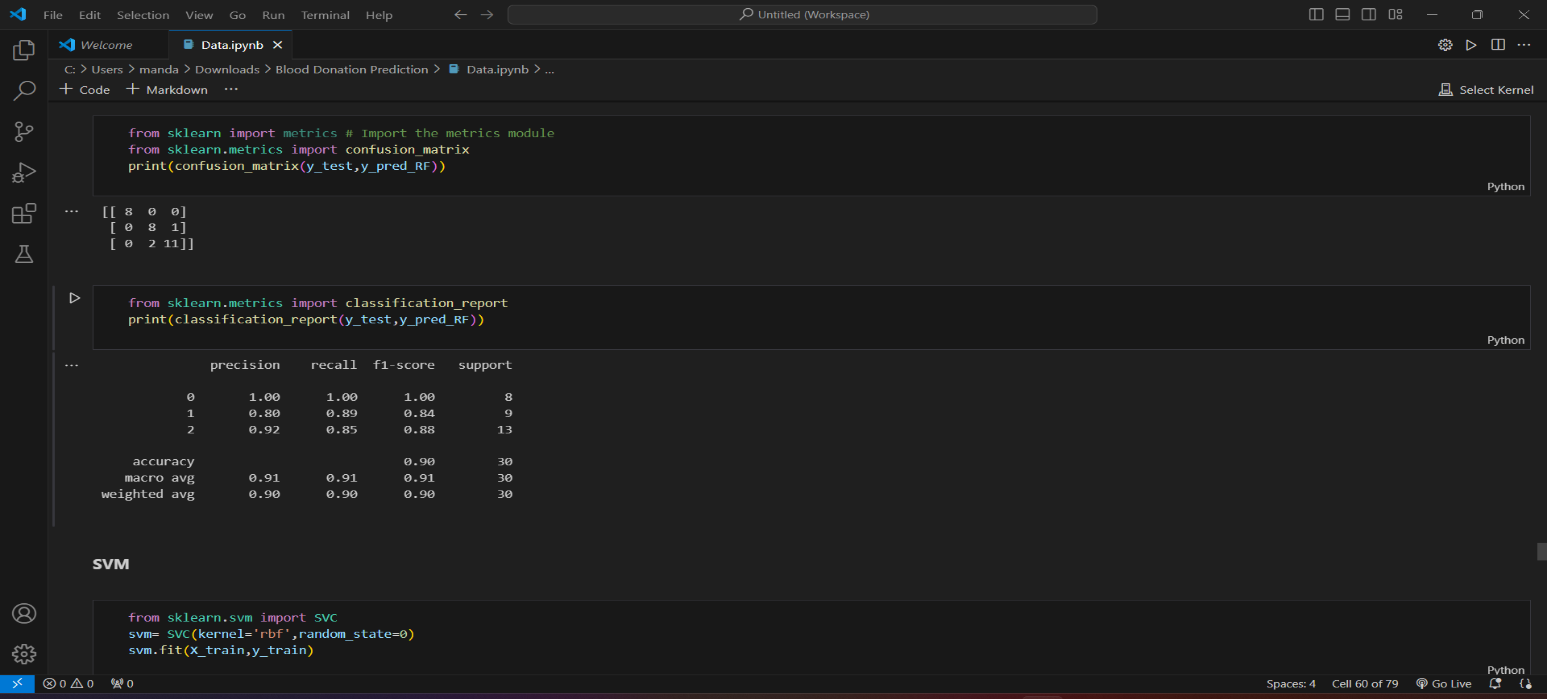


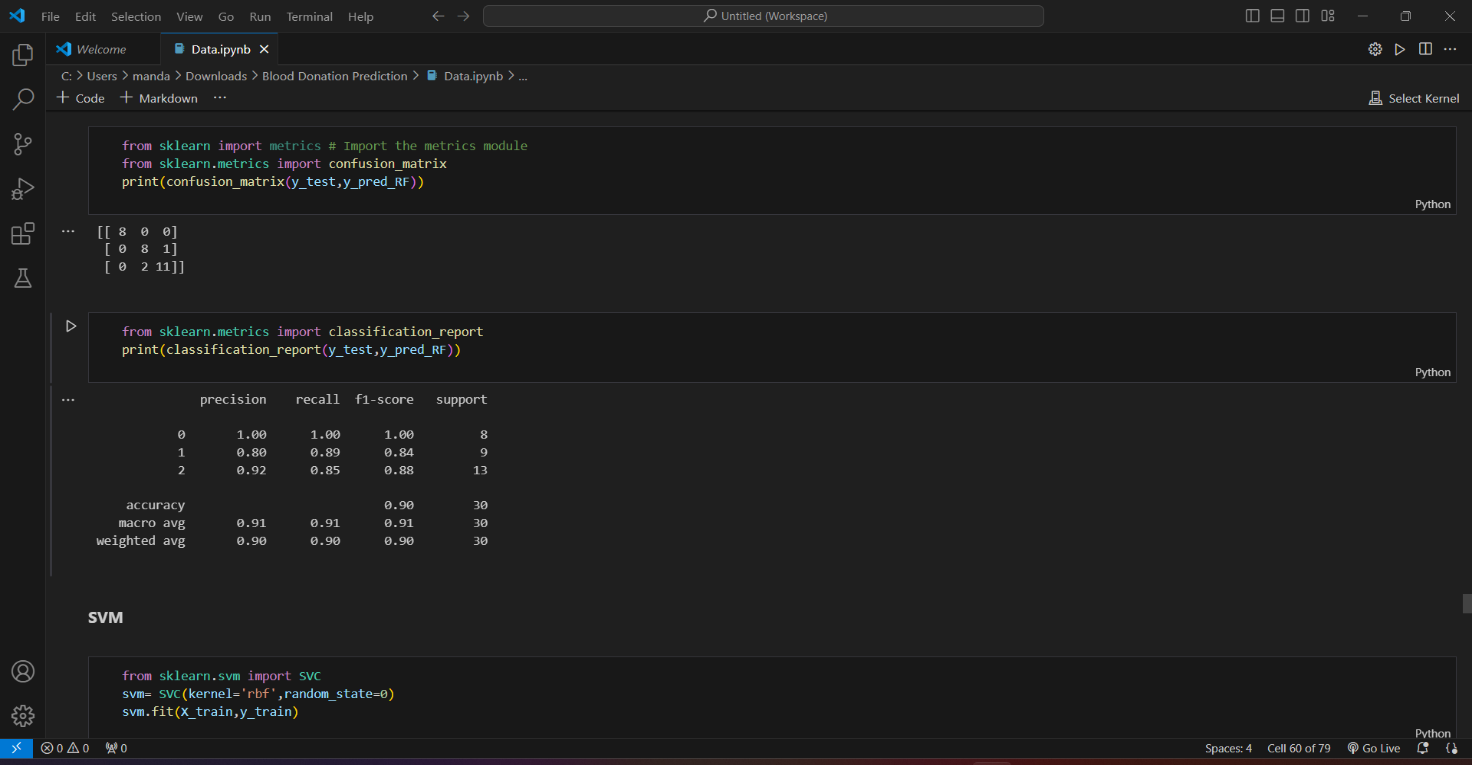


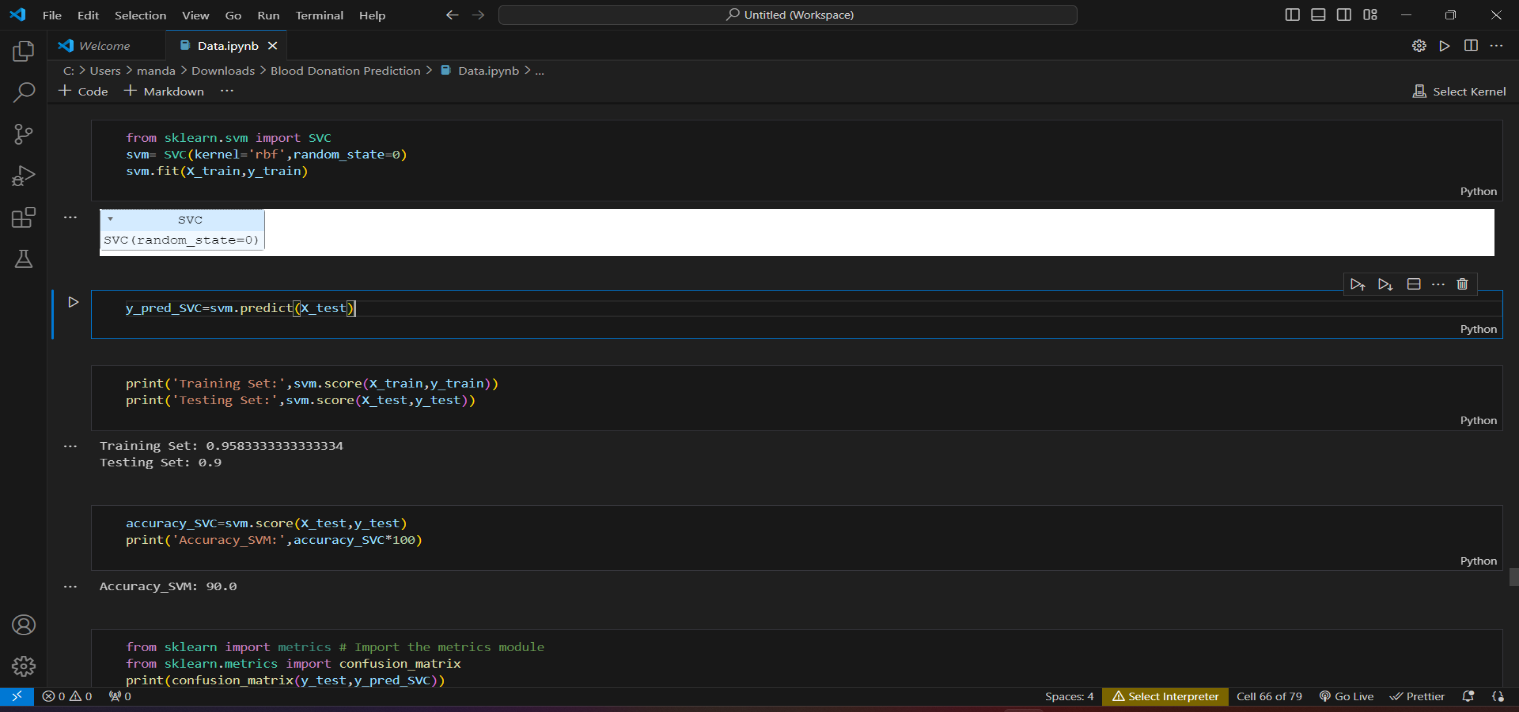


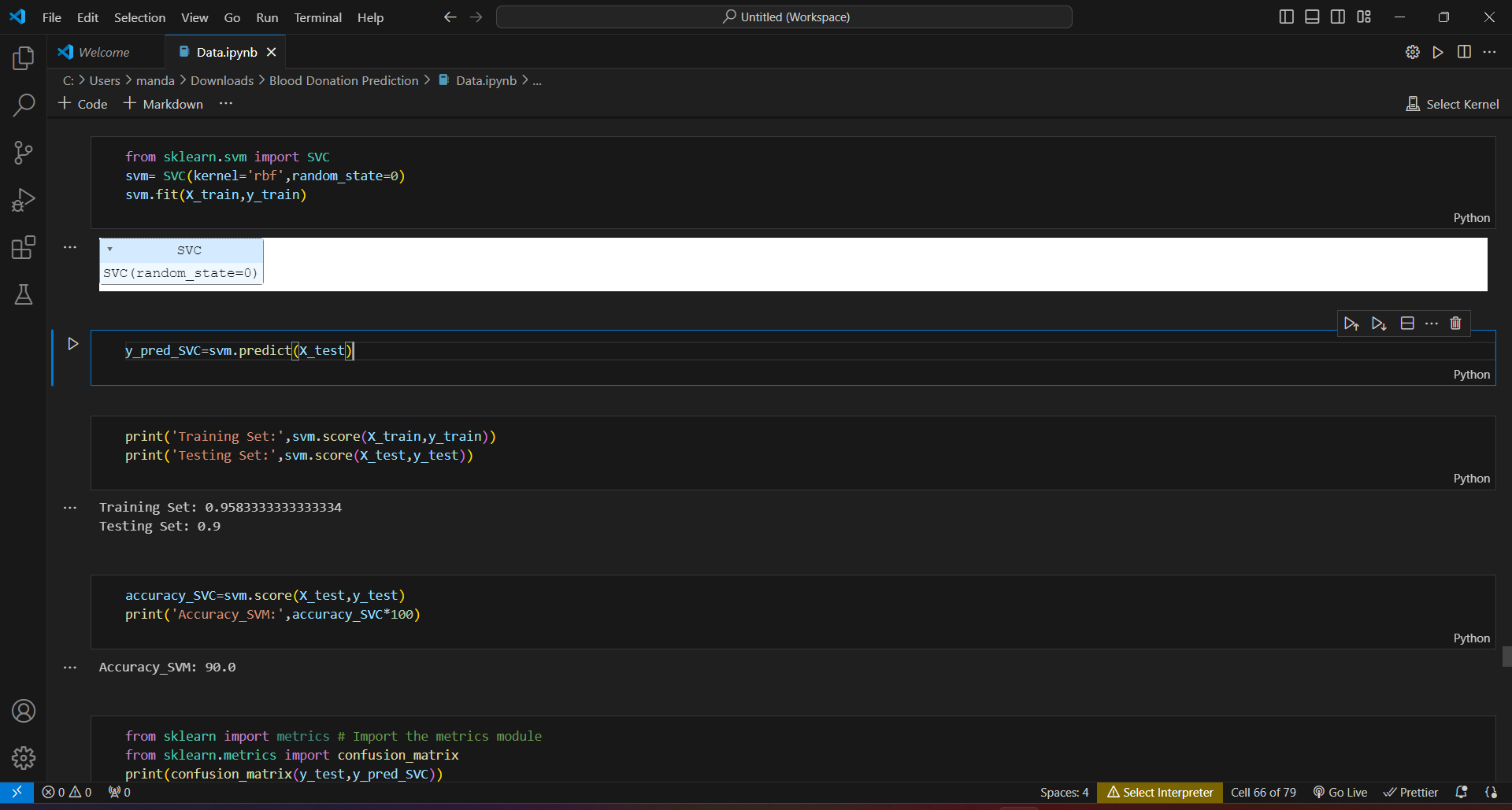


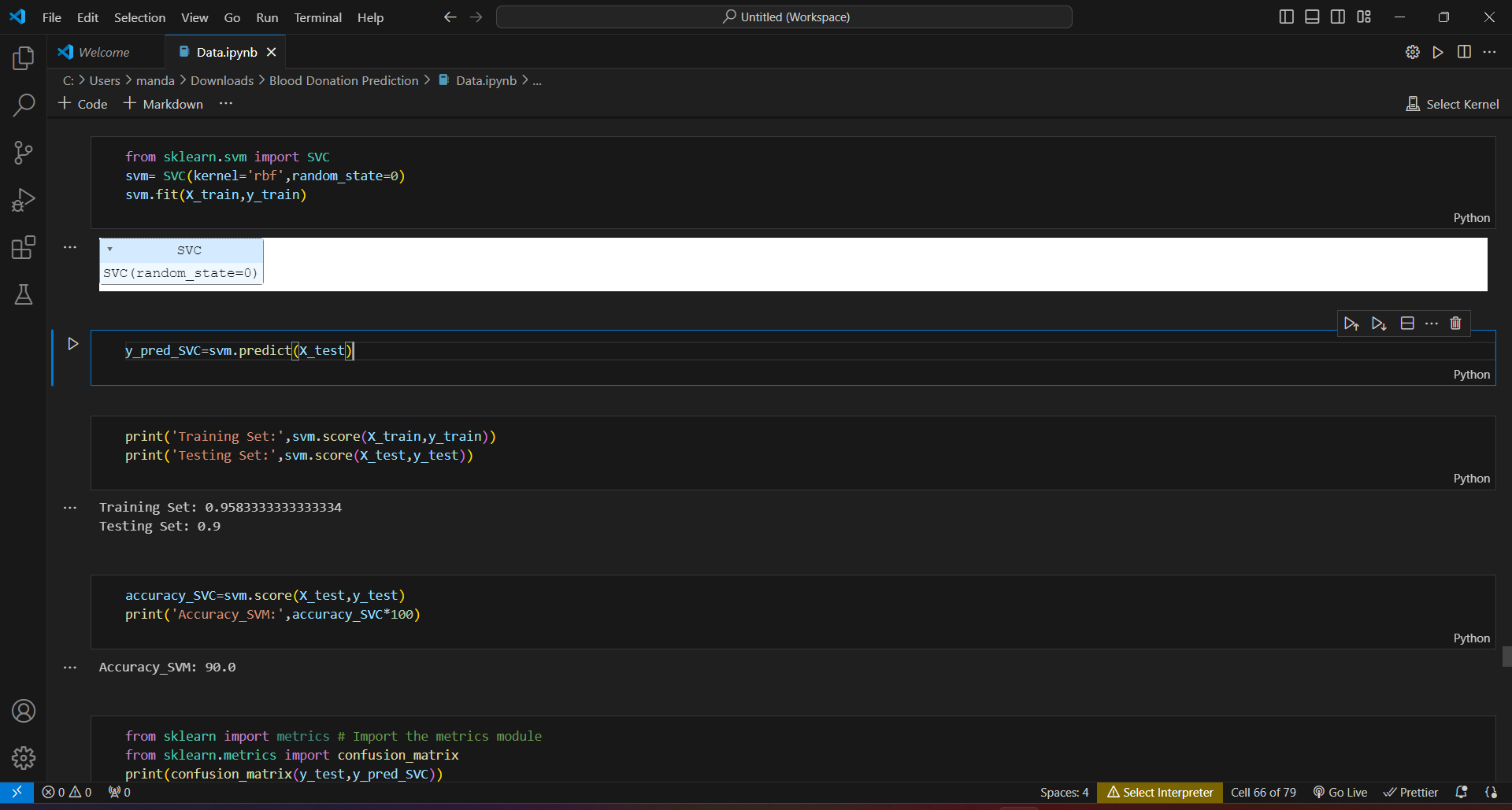


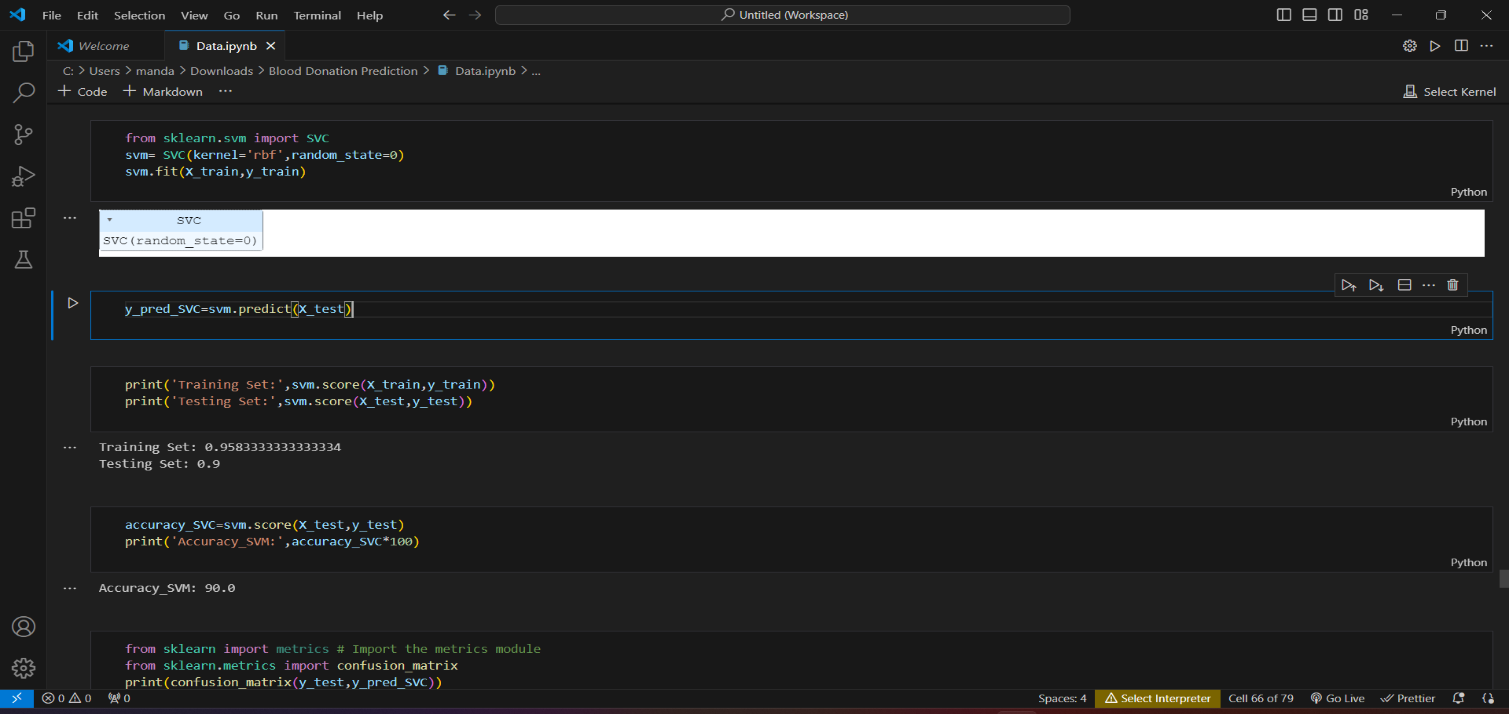


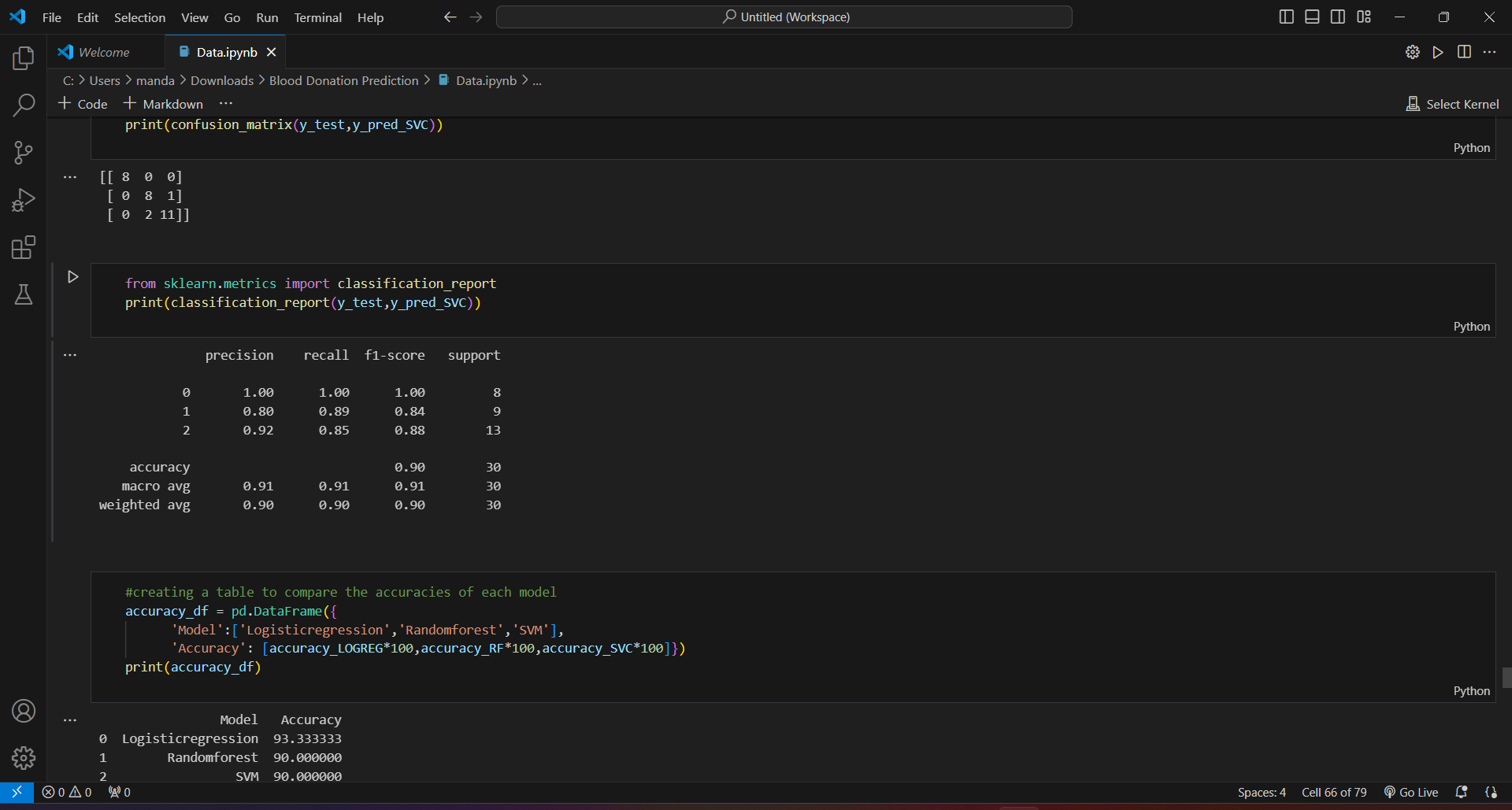












**Model Validation and Evaluation Report:**

|  |  |  |  |
| --- | --- | --- | --- |
| **Model** | **Classification Report** | **Accuracy** | **Confusion Matrix** |
| Logistic Regression |  | **93.3** |  |
| Random Forest |  | **90.0** |  |
| Support Vector Machine |  | **90.0** |  |