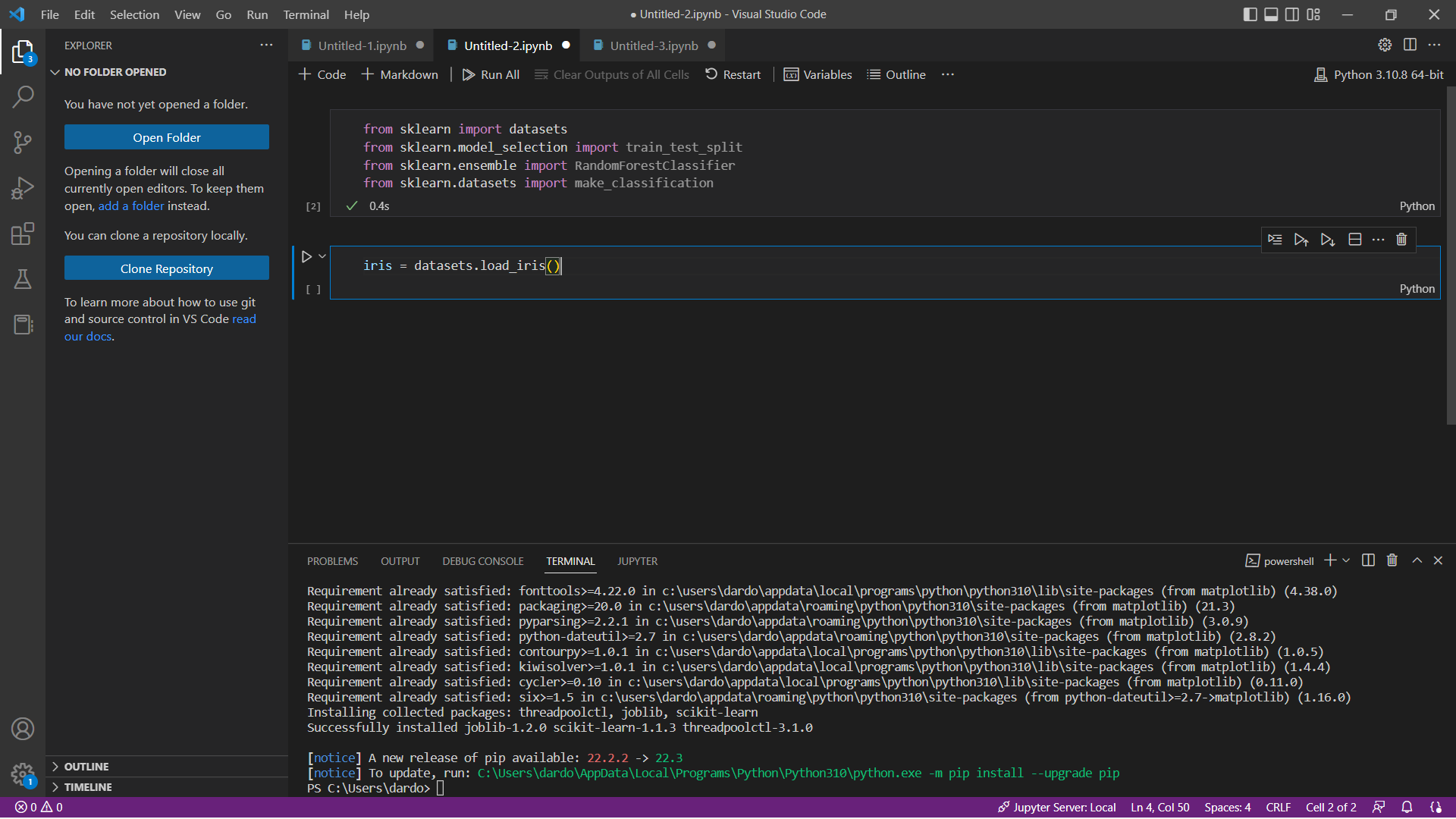
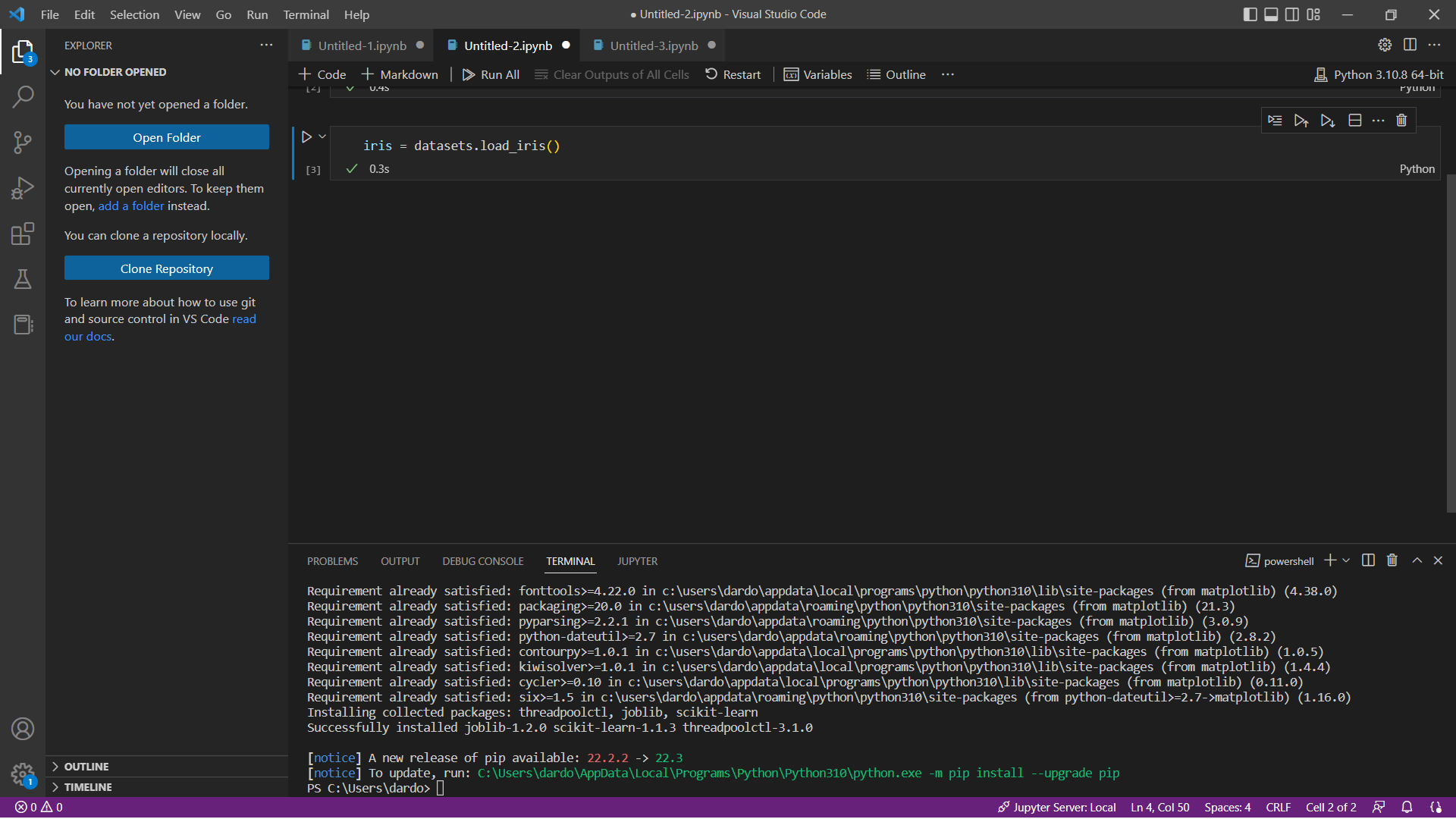
**LAB1 : Building a Classification Model for the Iris data set**

**GITHUB LINK :** [**https://github.com/RAHMADARDOUR/LAB1**](https://github.com/RAHMADARDOUR/LAB1)

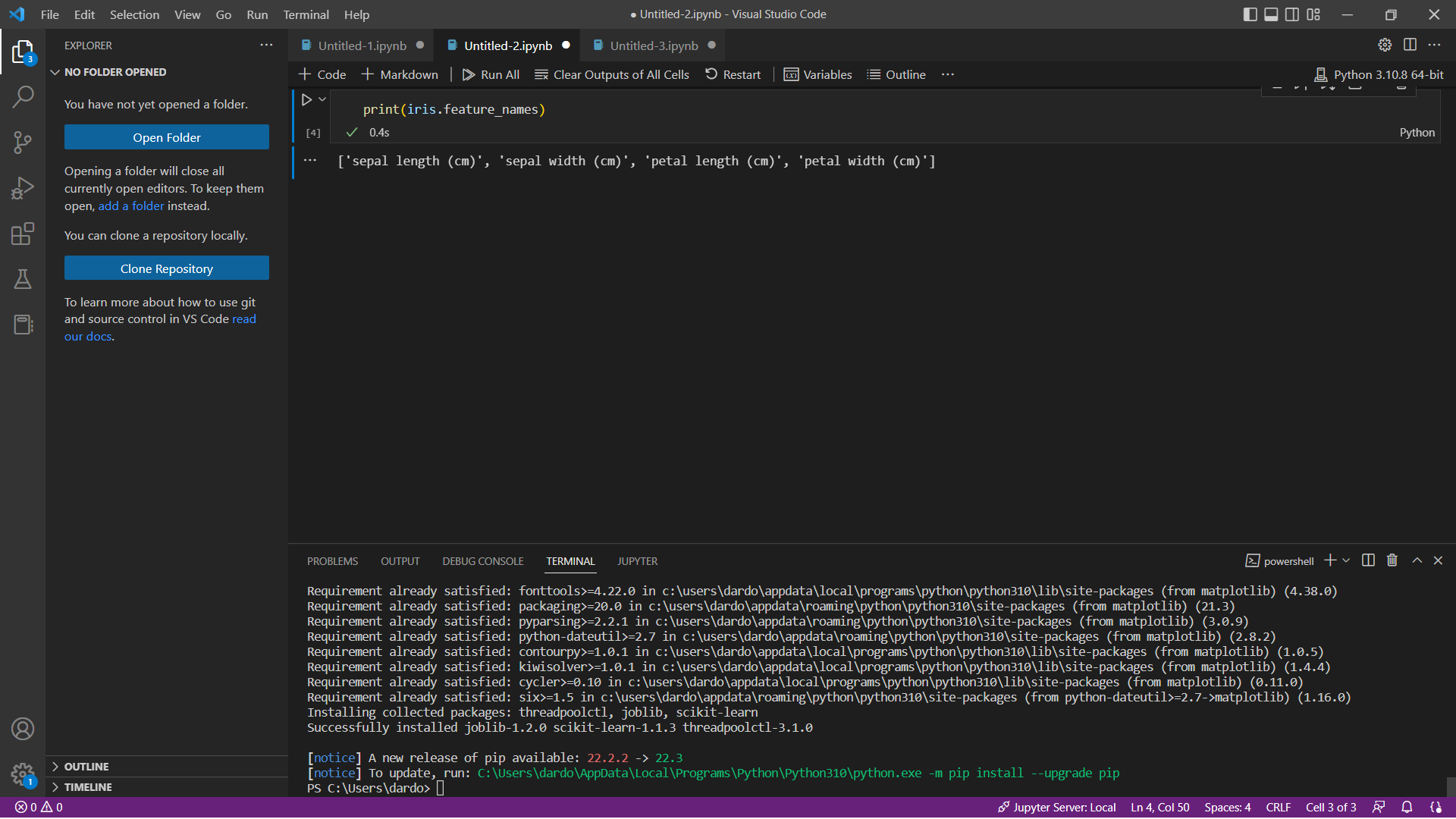
1. **Import libraries**



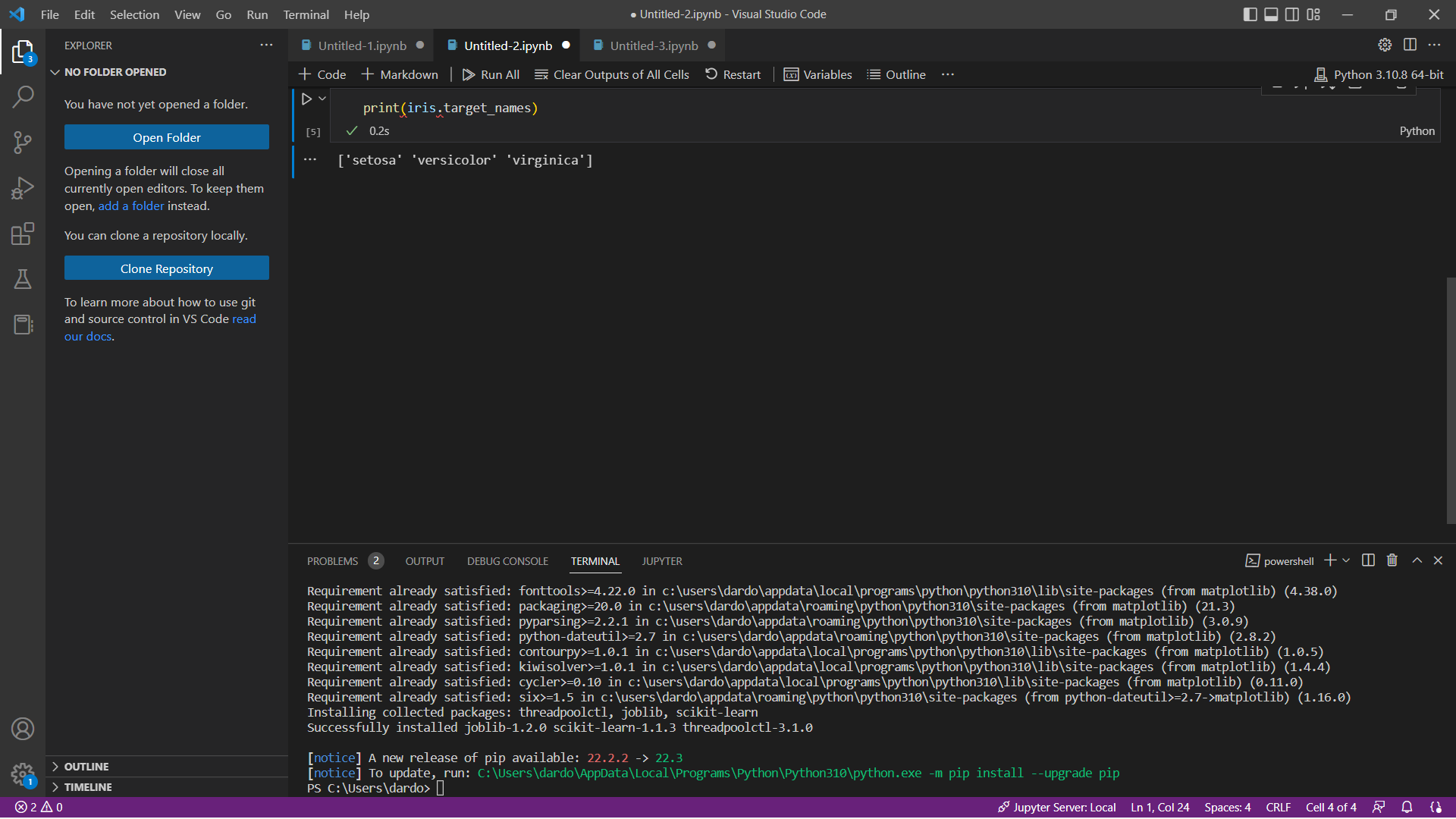
1. **Load the iris data set**



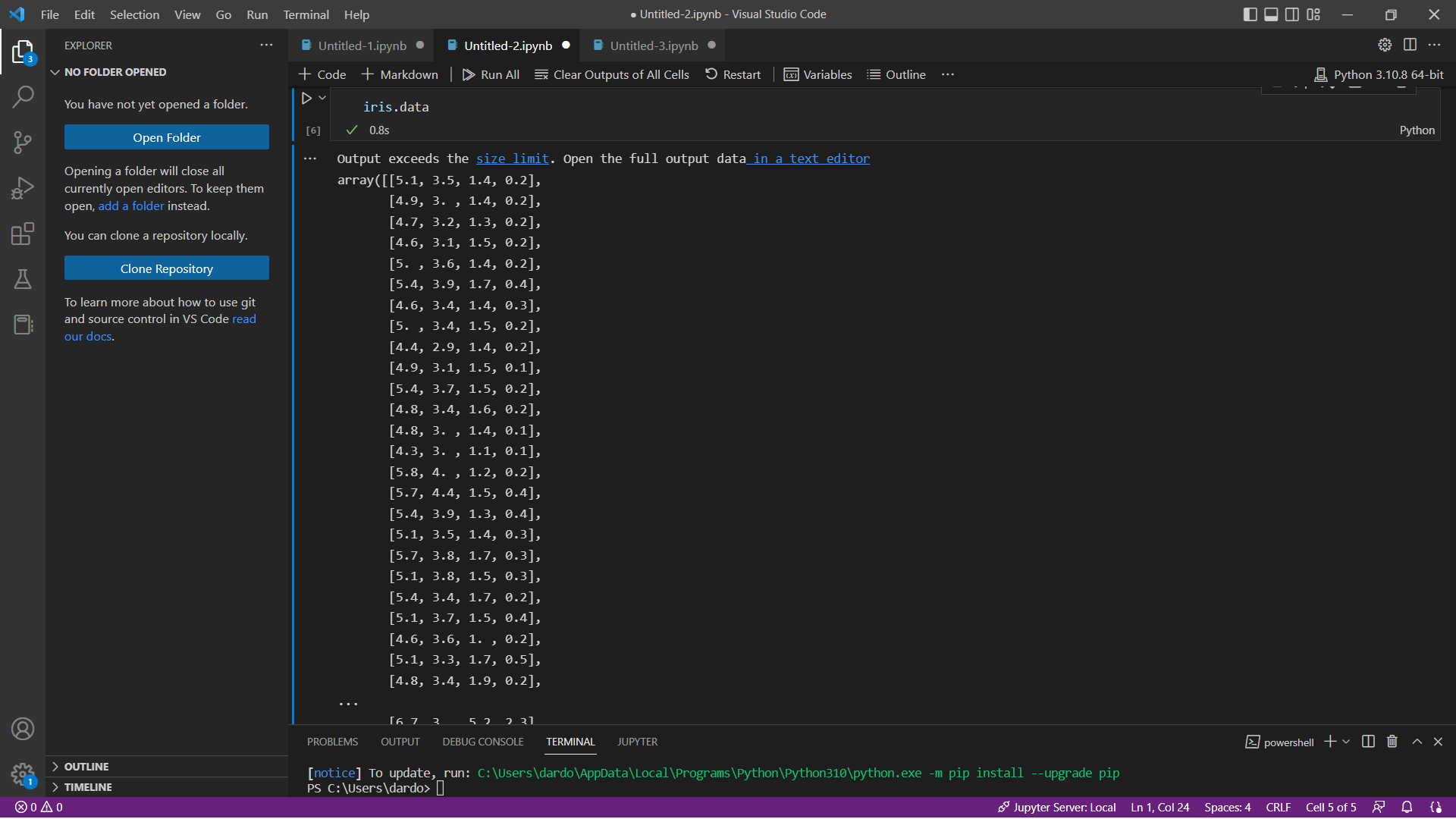
1. **Input features**
   1. **Input features**



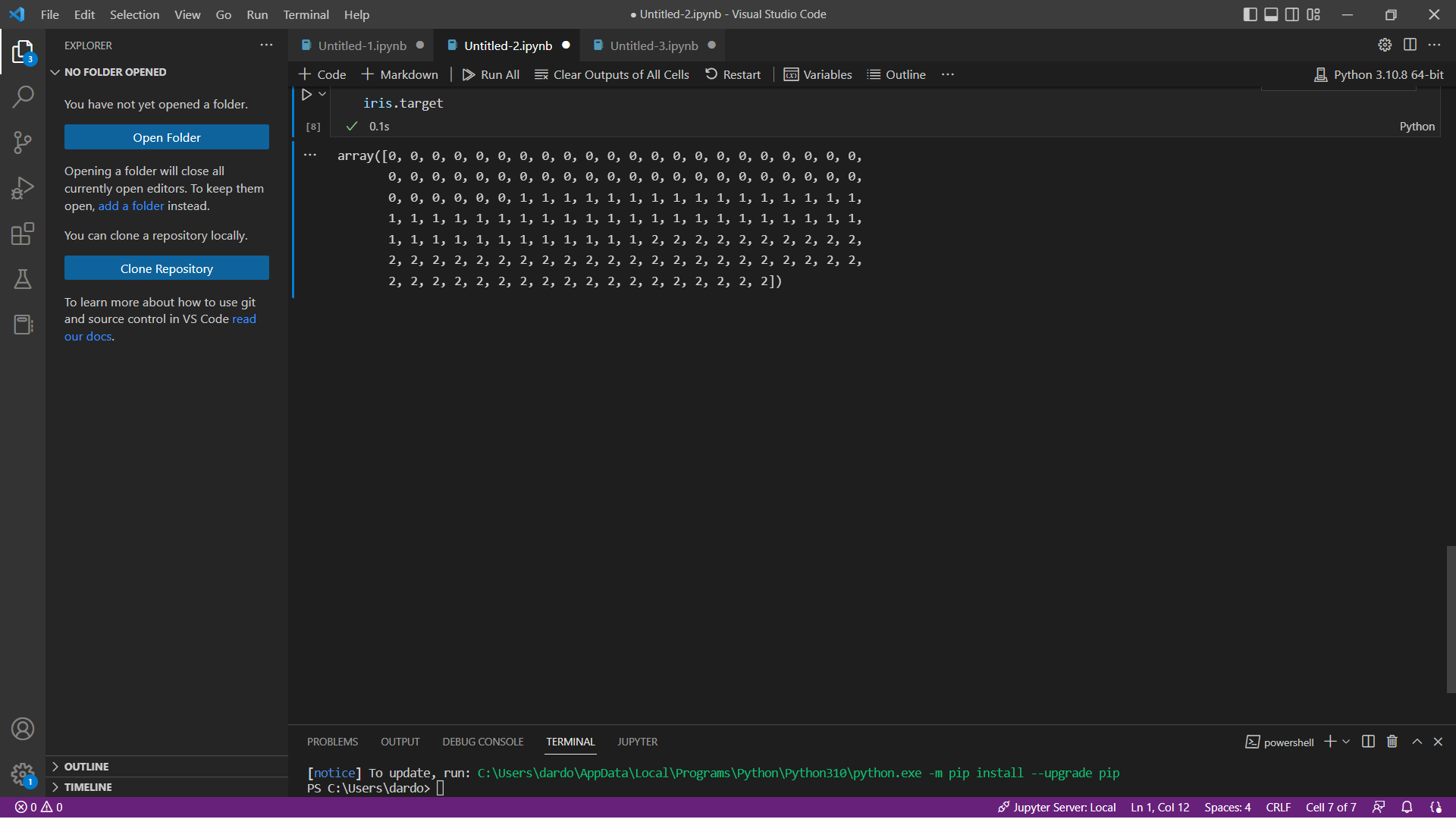
* 1. **Output features**



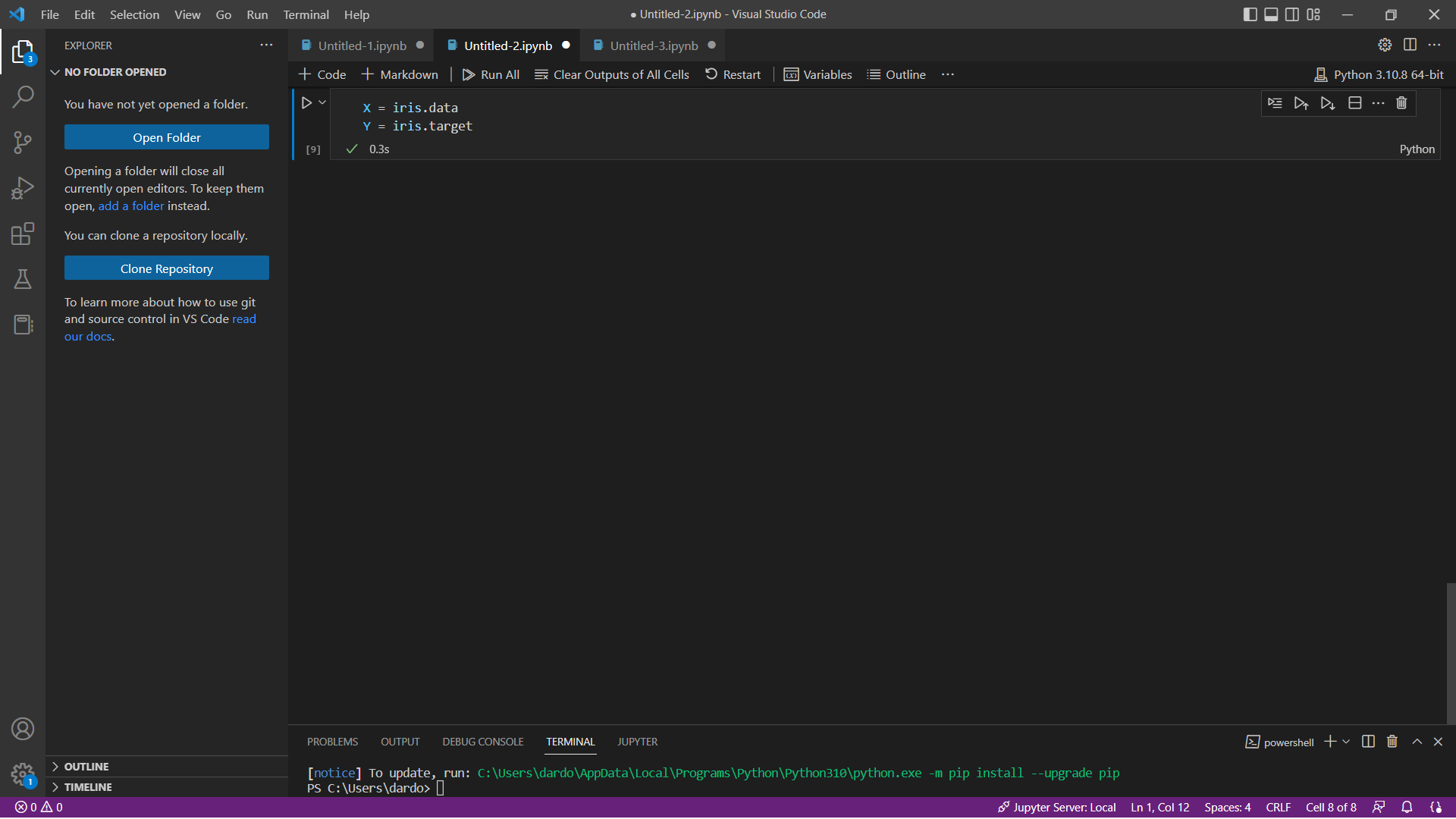
1. **Glimpse of the data**
   1. **Input features**



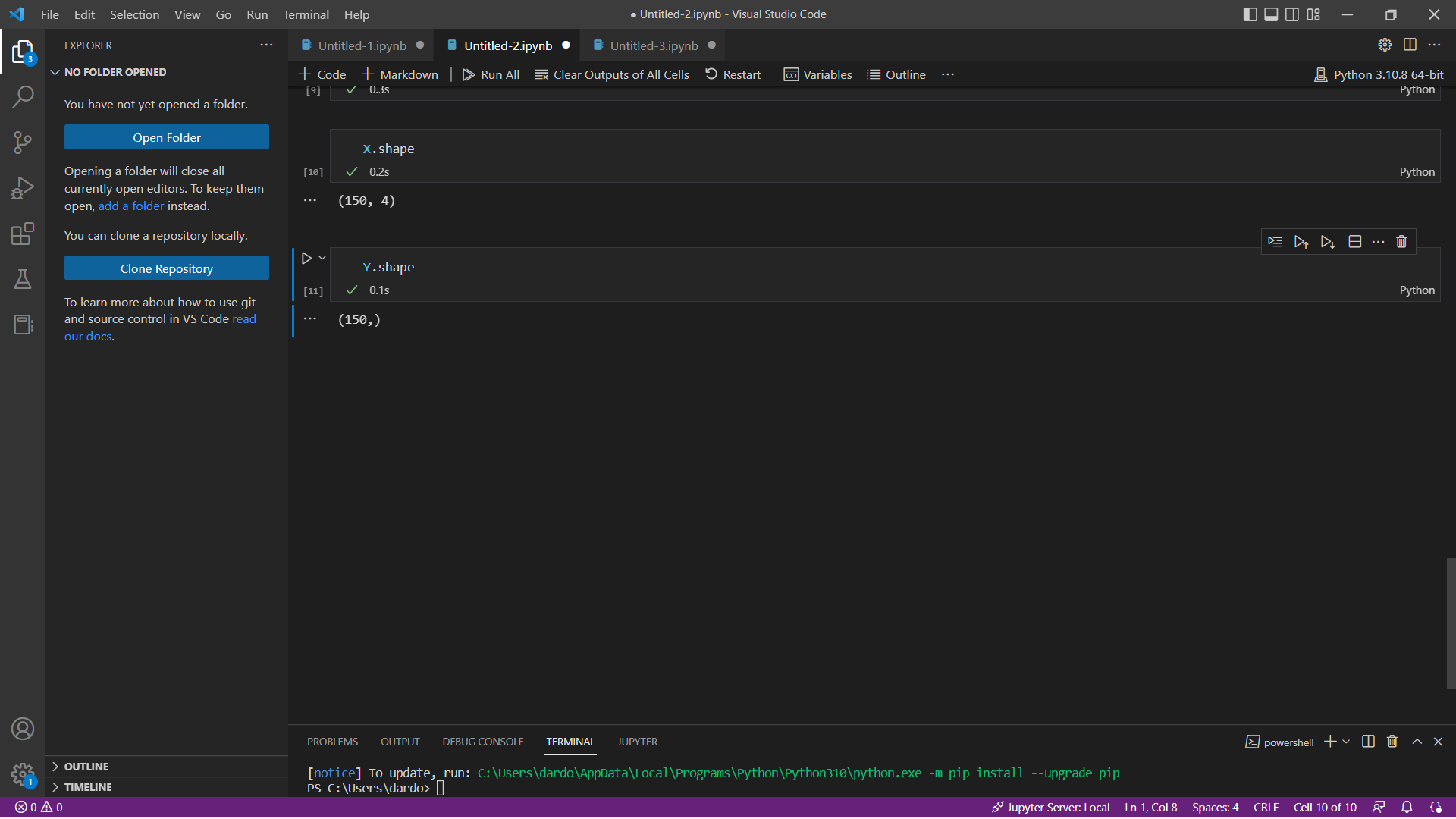
* 1. **Output variable (the Class label)**



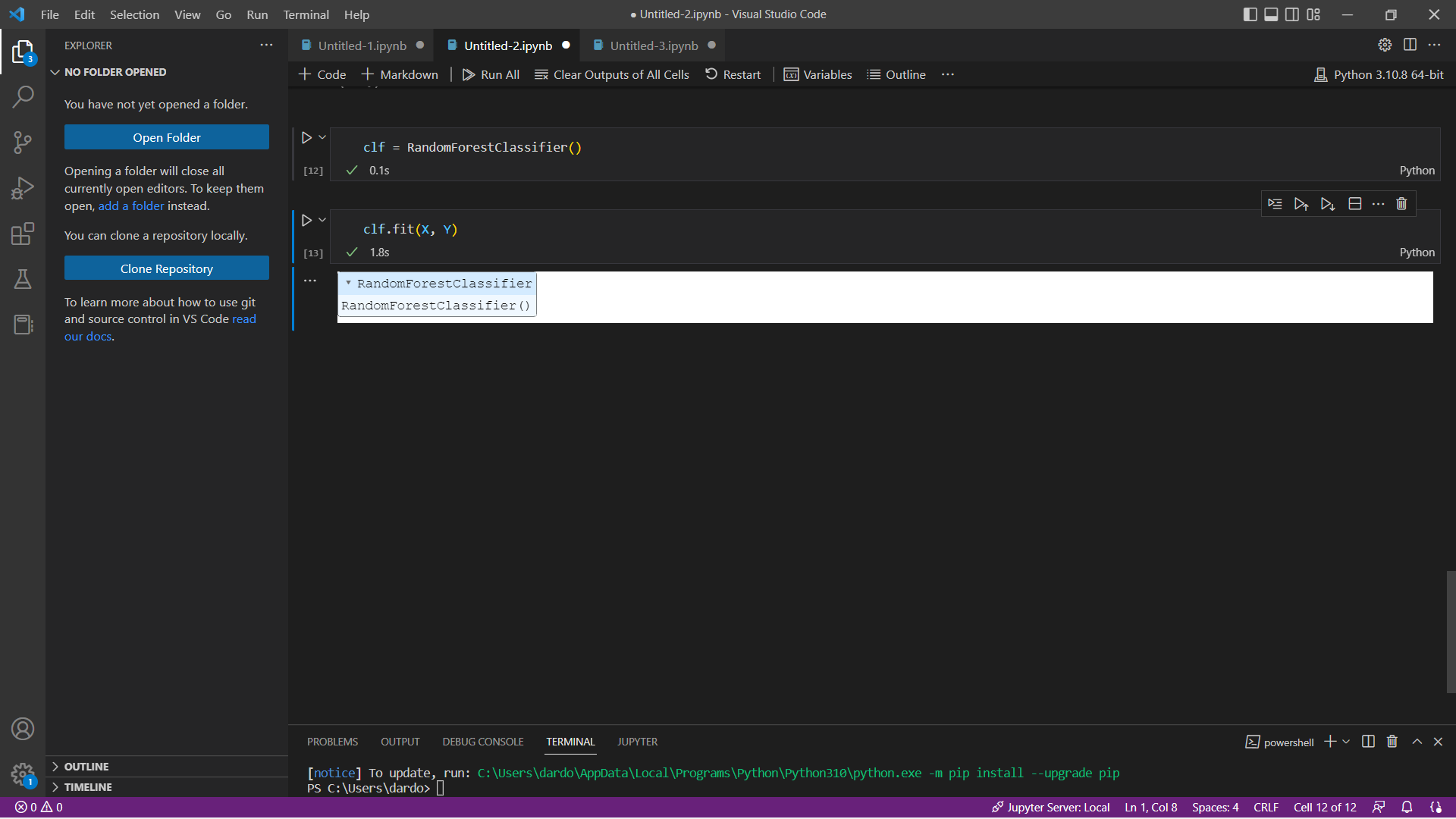
* 1. **Assigning input and output variables**



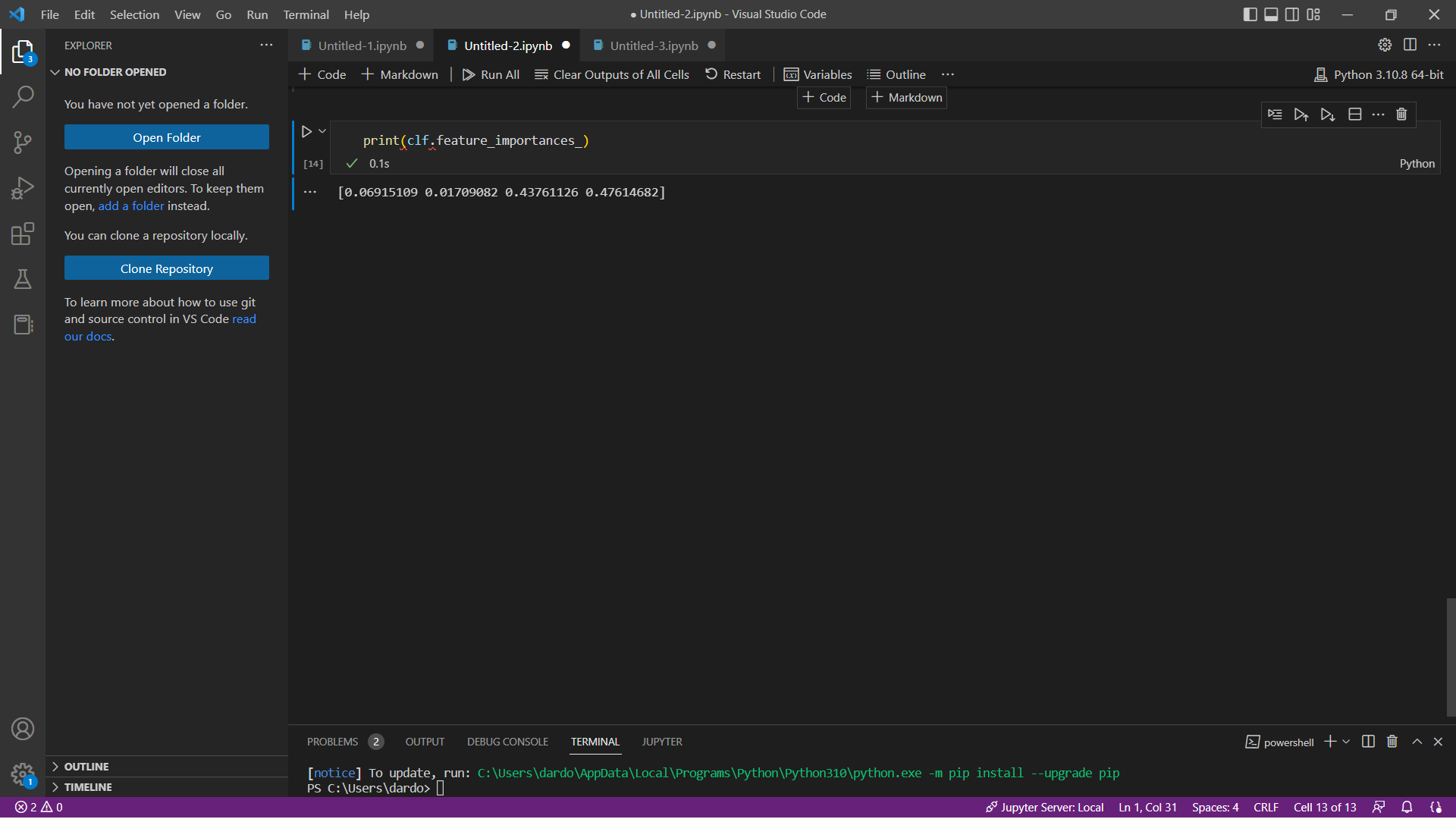
* 1. **Let's examine the data dimension**



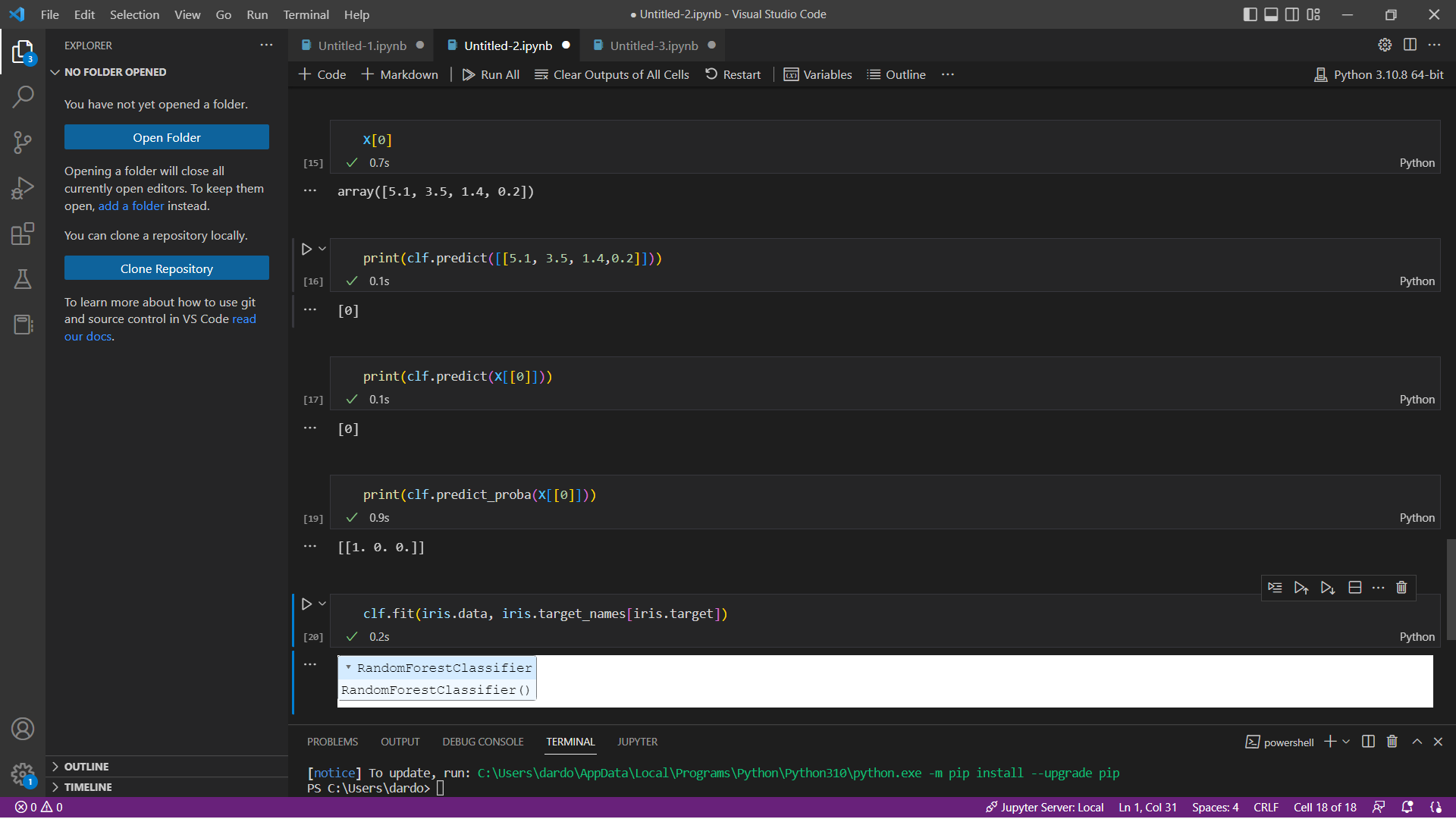
1. **Build Classification Model using Random Forest**



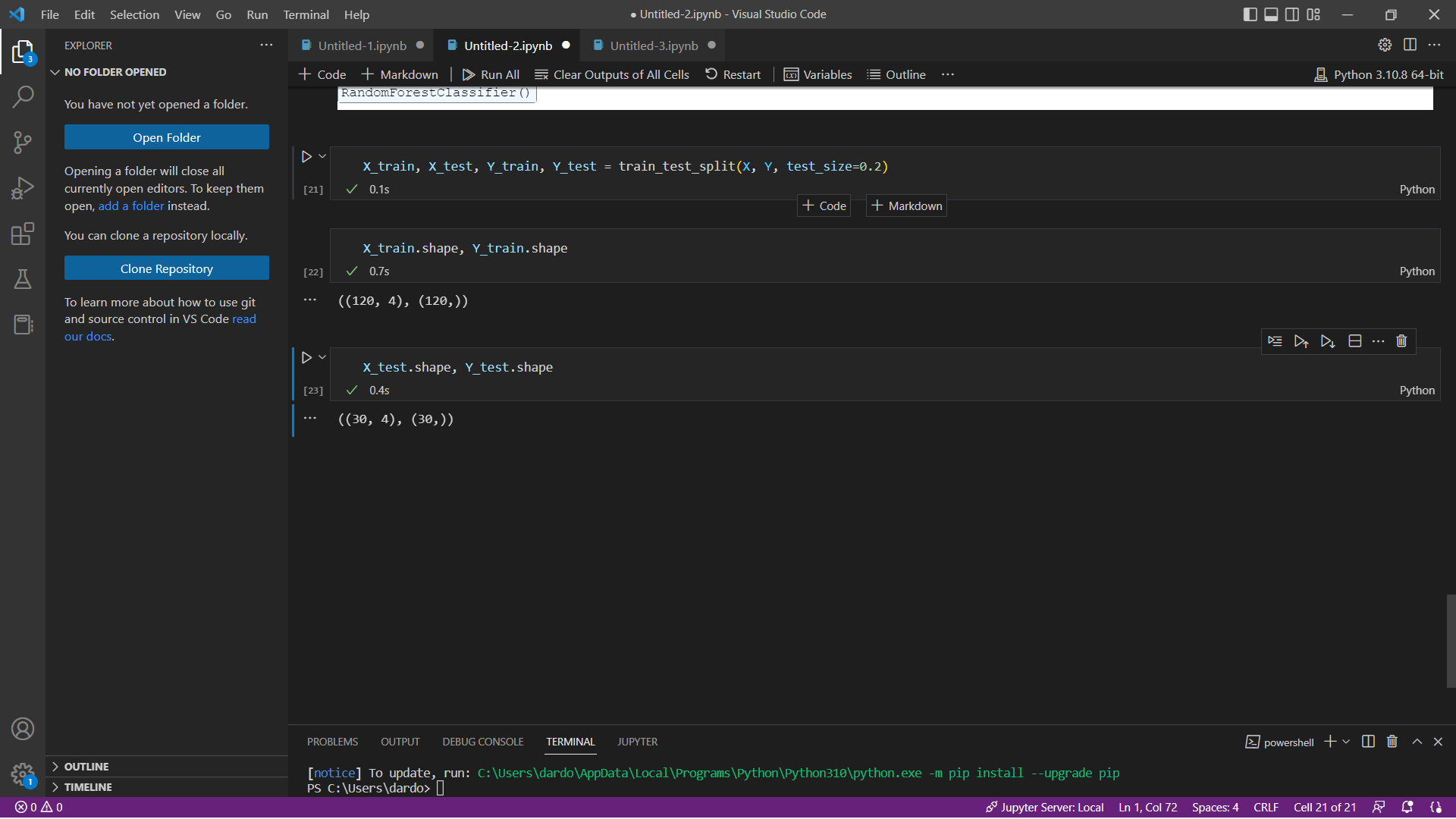
1. **Feature Importance**



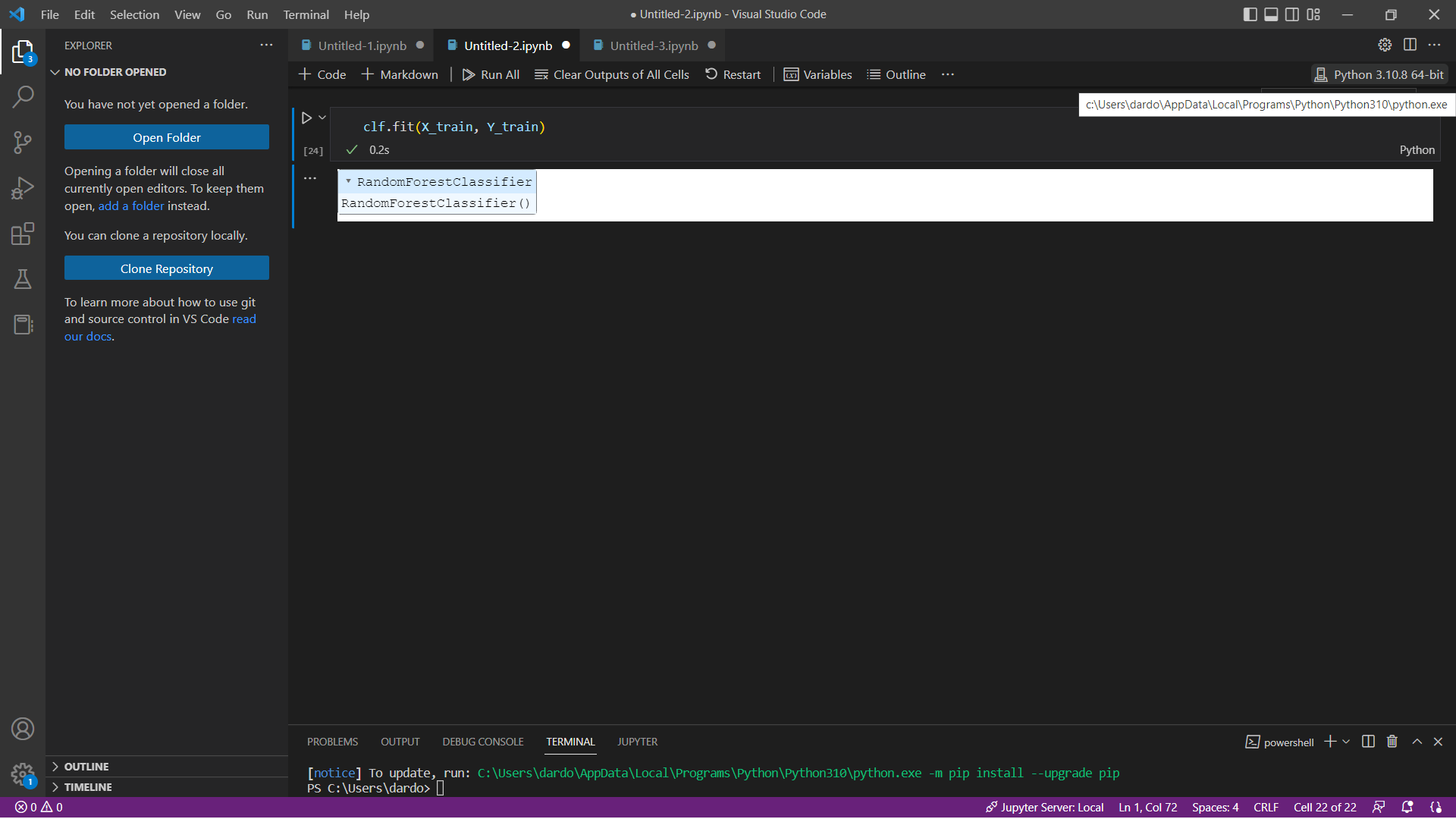
1. **Make Prediction**



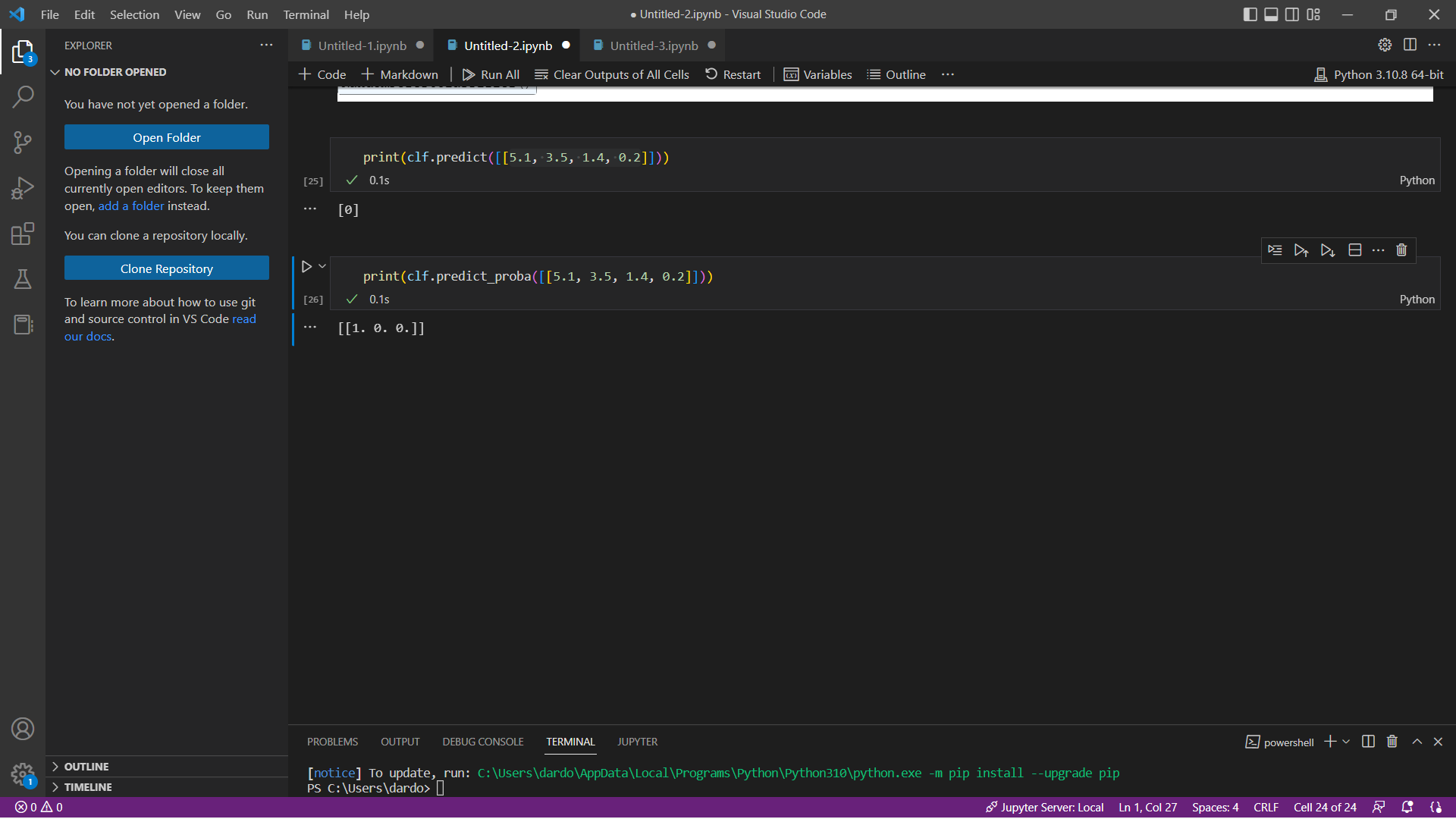
1. **Data split (80/20 ratio)**



1. **Rebuild the Random Forest Model**

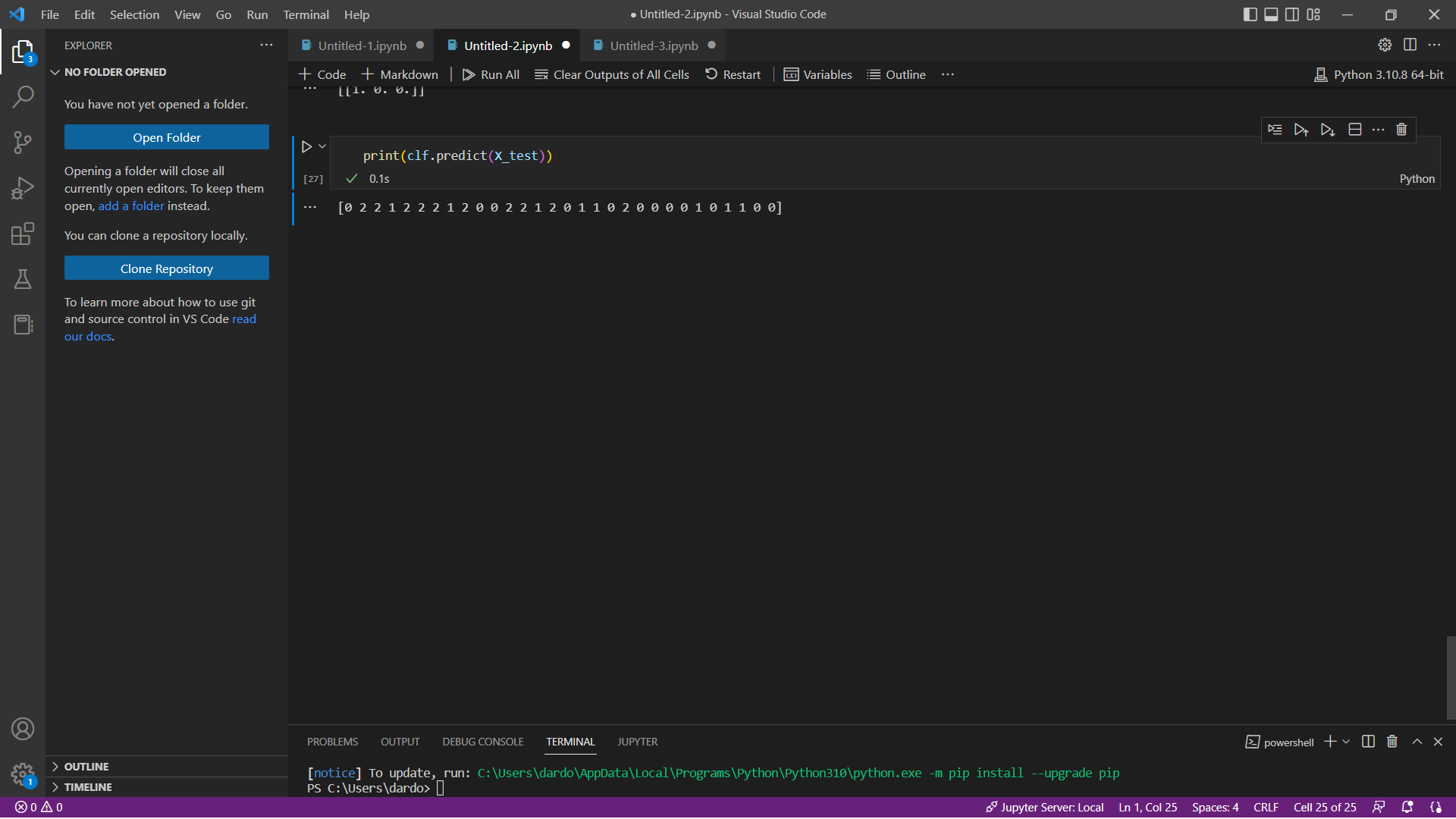


* 1. **Performs prediction on single sample from the data set**

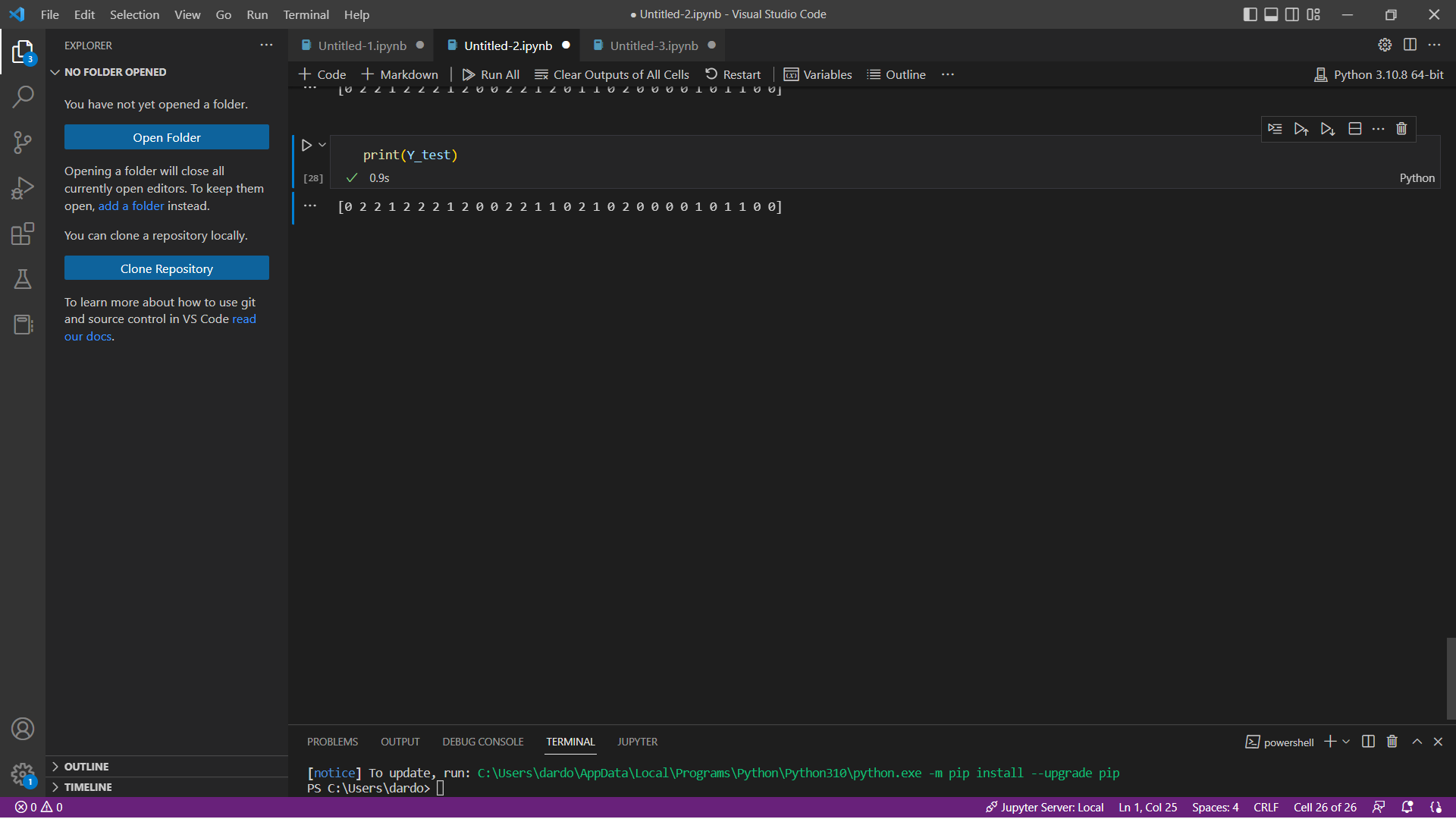


* 1. **Performs prediction on the test set**

**Predicted class labels**



**Actual class labels**



1. **Model Performance**

