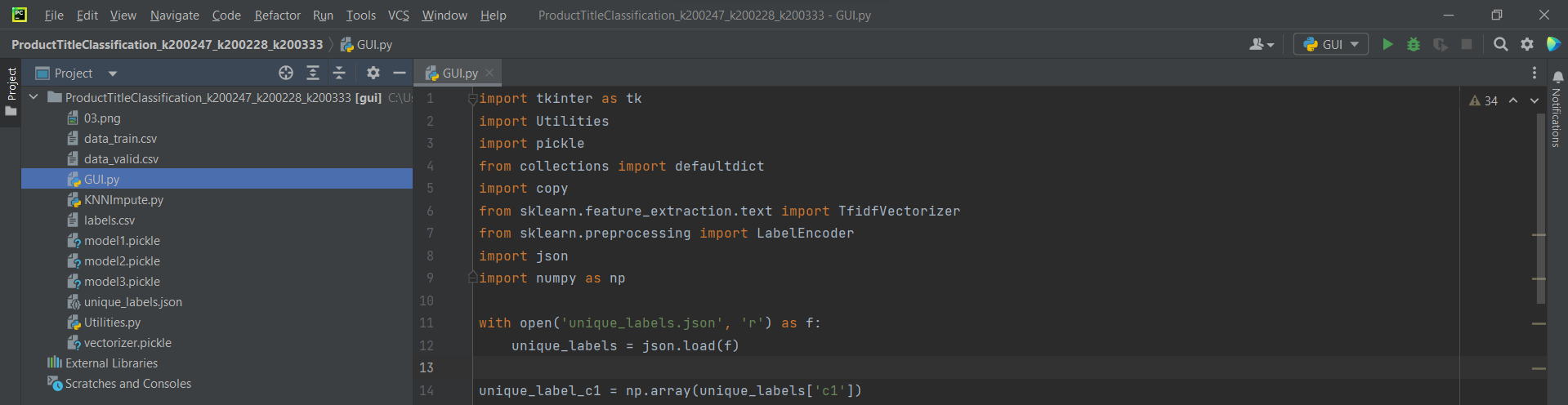
**TO EXECUTE ON THE PYCHARM FOR GUI**

1. Open the folder “**ProductTitleClassification\_k200247\_k200228\_k200333**” on PyCharm. Once opened, click on “**GUI.py”**:



1. Once opened, click on this button at top right of the window:

A screenshot of a computer

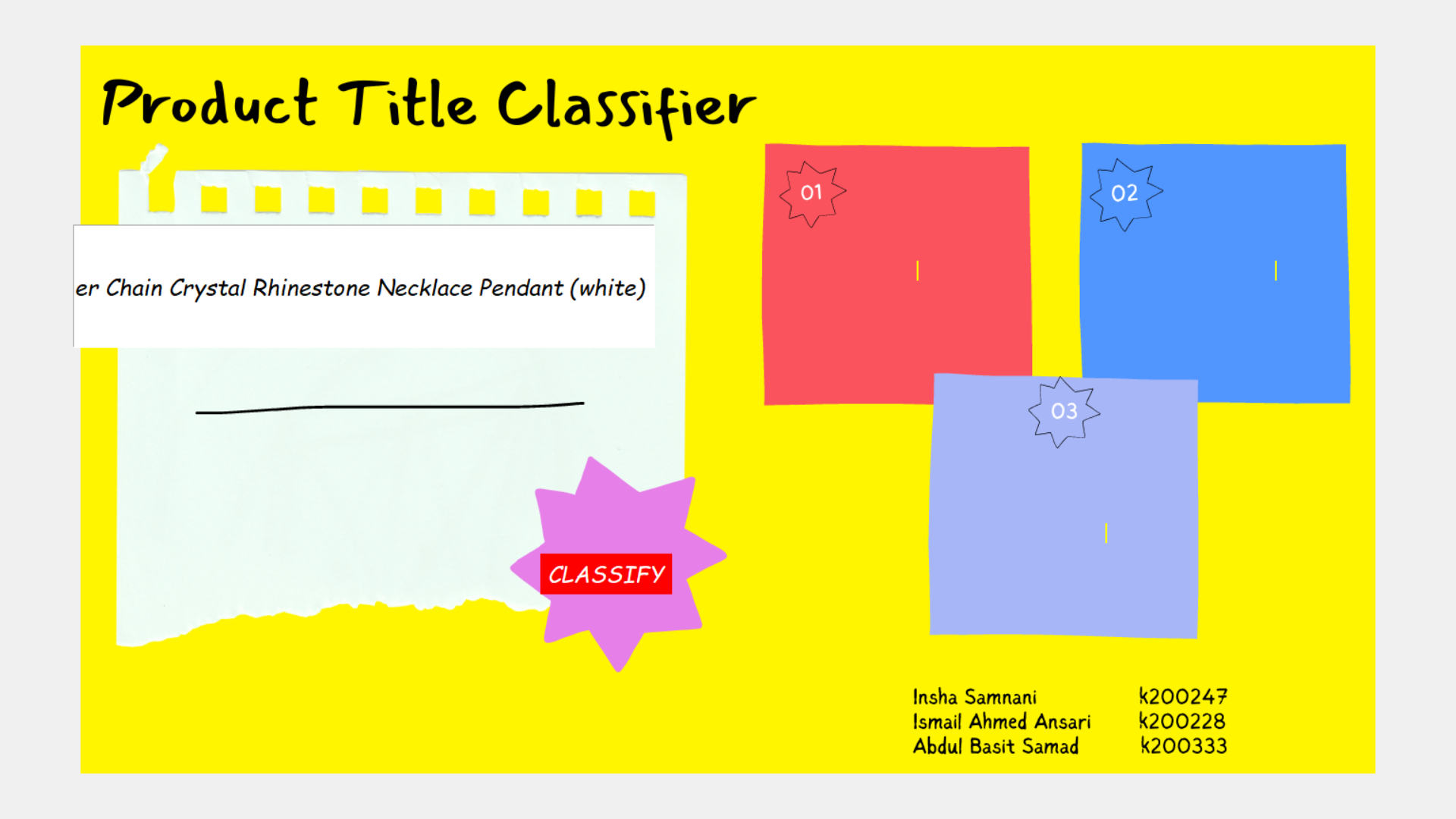
Description automatically generated

1. Then the following window will appear:

A picture containing text, screenshot, diagram, rectangle

Description automatically generated

1. Next Type the product title in place of “**Provide Title’s Description**”:



1. Then click on “**CLASSIFY**”:

A picture containing text, screenshot, diagram, font

Description automatically generated

1. Finally, you will see the resulting categories:

A picture containing text, screenshot, diagram, font

Description automatically generated

**TO EXECUTE ON THE GOOGLE COLAB FOR NORMAL EXECUTION**

**PREREQUISITE:**

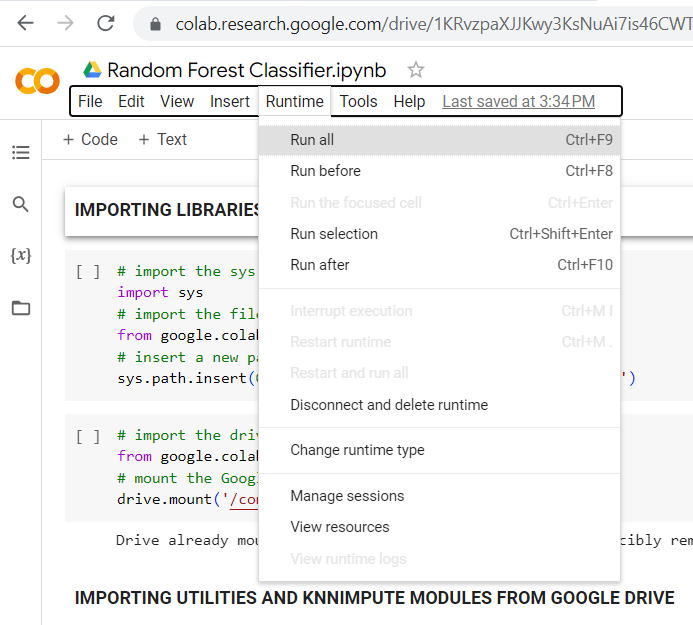
Upload “**KNNImpute.py**” and “**Utilities.py**” files on your google drive.

1. **RANDOM FOREST CLASSIFIER:**

Open “**Random\_Forest\_Classifier.ipynb**” in **GOOGLE COLAB**.

Upload “**data\_train.csv**”, “**data\_valid.csv**”, and “**labels.csv**”.

Next, click on “**Run all**” to observe the execution:



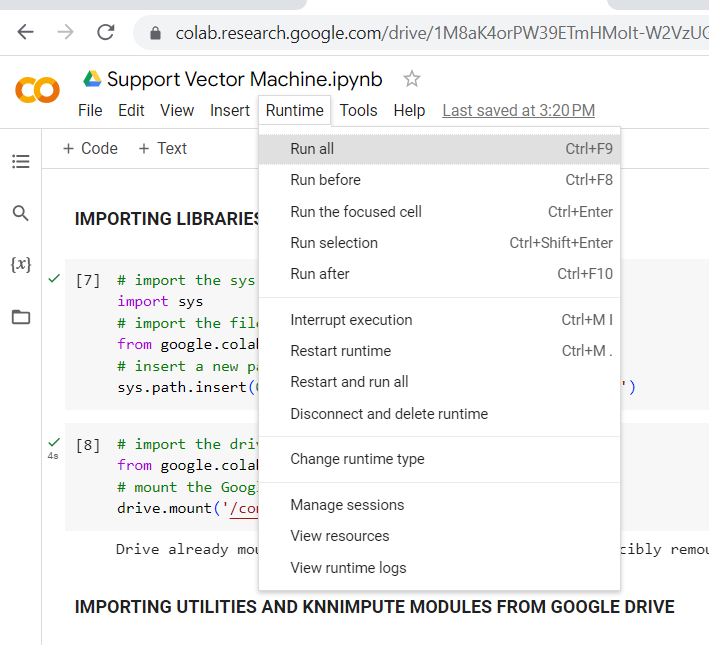
During execution, grant access to your Gmail account to mount the google drive on this notebook.

1. **SUPPORT VECTOR MACHINE:**

Open “**Support\_vector\_Machine.ipynb**” in **GOOGLE COLAB**.

Upload “**data\_train.csv**”, “**data\_valid.csv**”, and “**labels.csv**”.

Next, click on “**Run all**” to observe the execution:



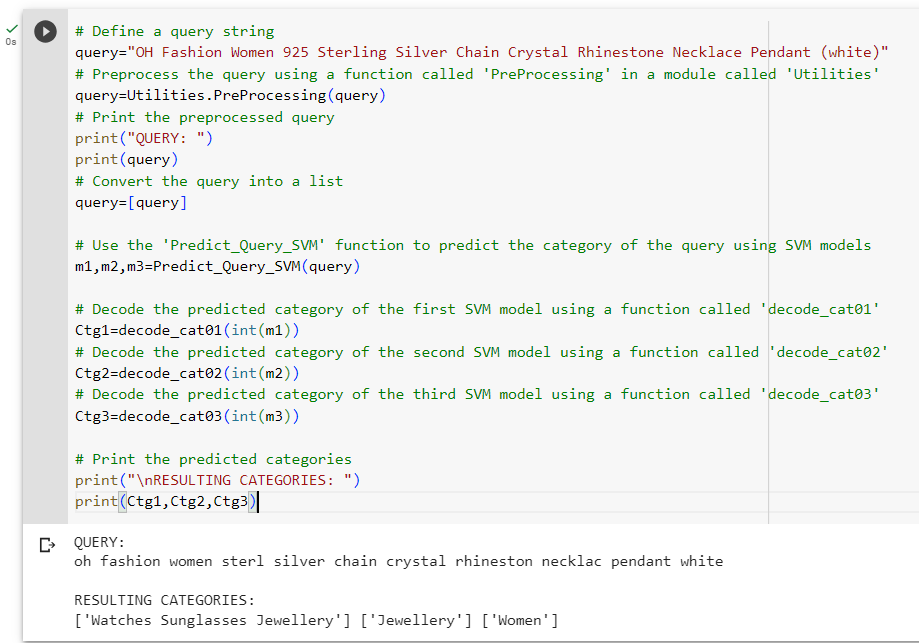
During execution, grant access to your Gmail account to mount the google drive on this notebook.

You can change the query as you want by typing it here in the last cell:

A picture containing text, font, screenshot, line

Description automatically generated

After successful execution, scroll down to the last cell to view the query results:

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