Readme file

There are 3 main file in our project:

1. 2 files jupyter notebook

*MNB.ipynb and BNB.ipynb show the training phase for Multinomial Naïve Bayes and Bernoulli Naïve Bayes and print the classification report. Two above file are both jupyter notebook

To see or run each step in those files,in command line:

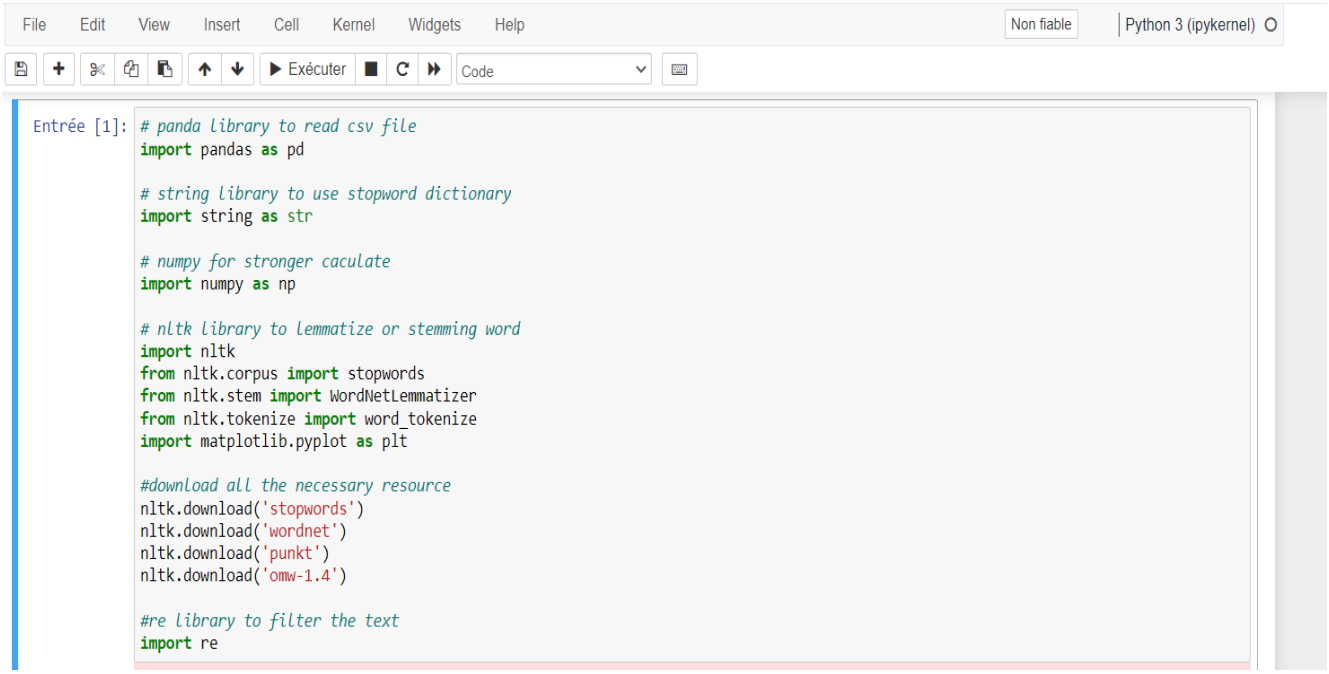
cd file (file mean the folder that contains our project)

pip install notebook (if you haven't install notebook yet)

jupyter notebook

After run "jupyter notebook", you will see the interface:

Then click BNB.ipynb or MNB.ipynb ,you will see:



Then , just click each entrée and then click executer  to run each step.

Our project use some more python libraries ,so you have to install them first (if you haven't had yet) before launch:

pip install pandas

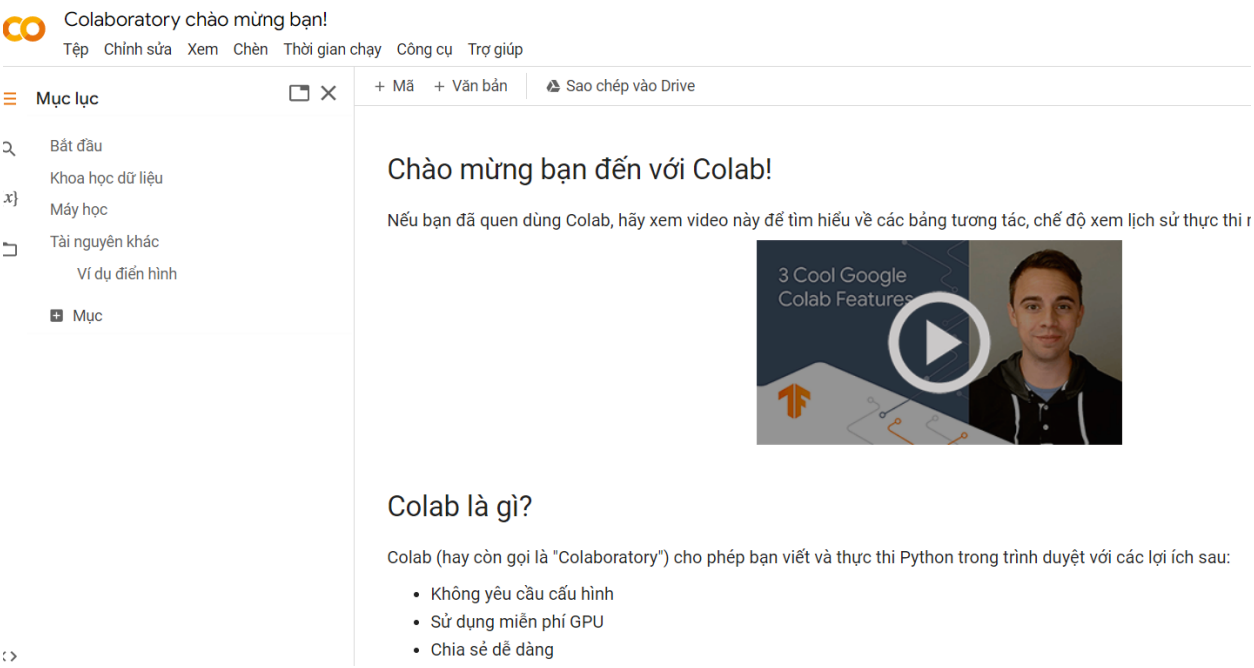
pip install numpy

pip install regex

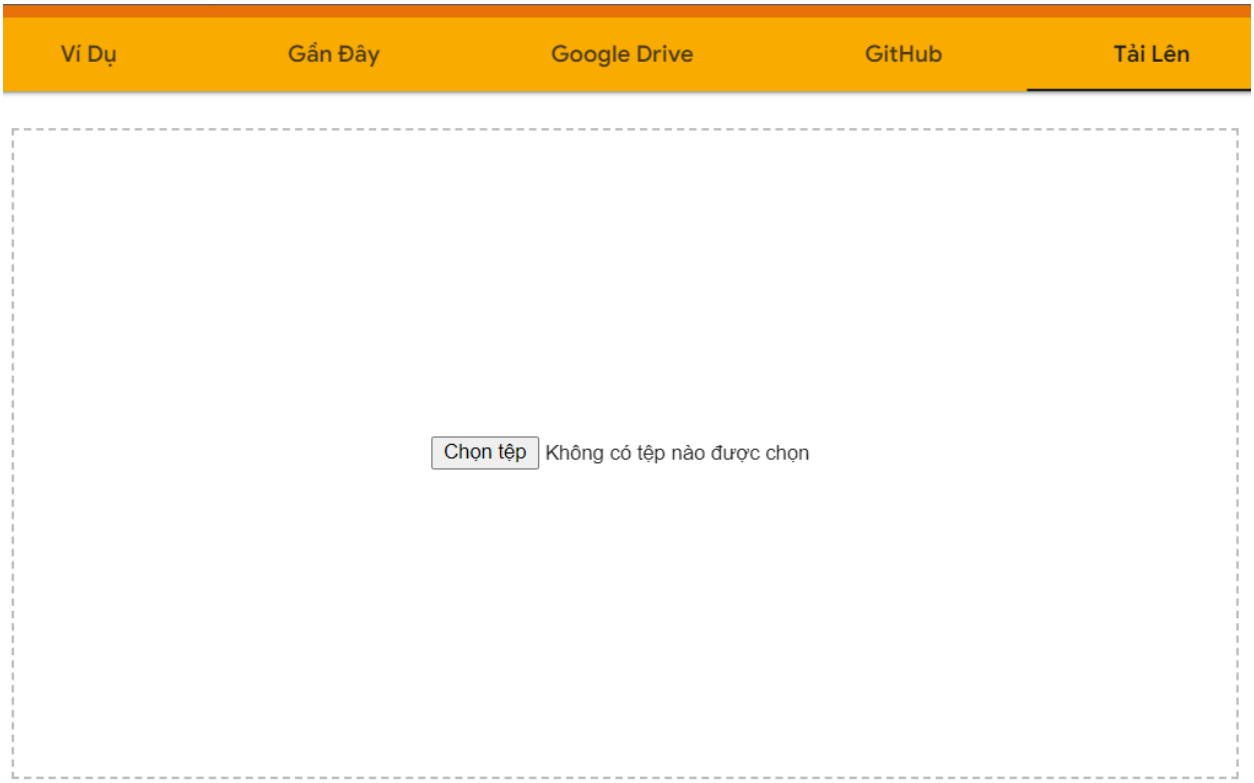
pip install -U skicit-learn

pip install matplotlib

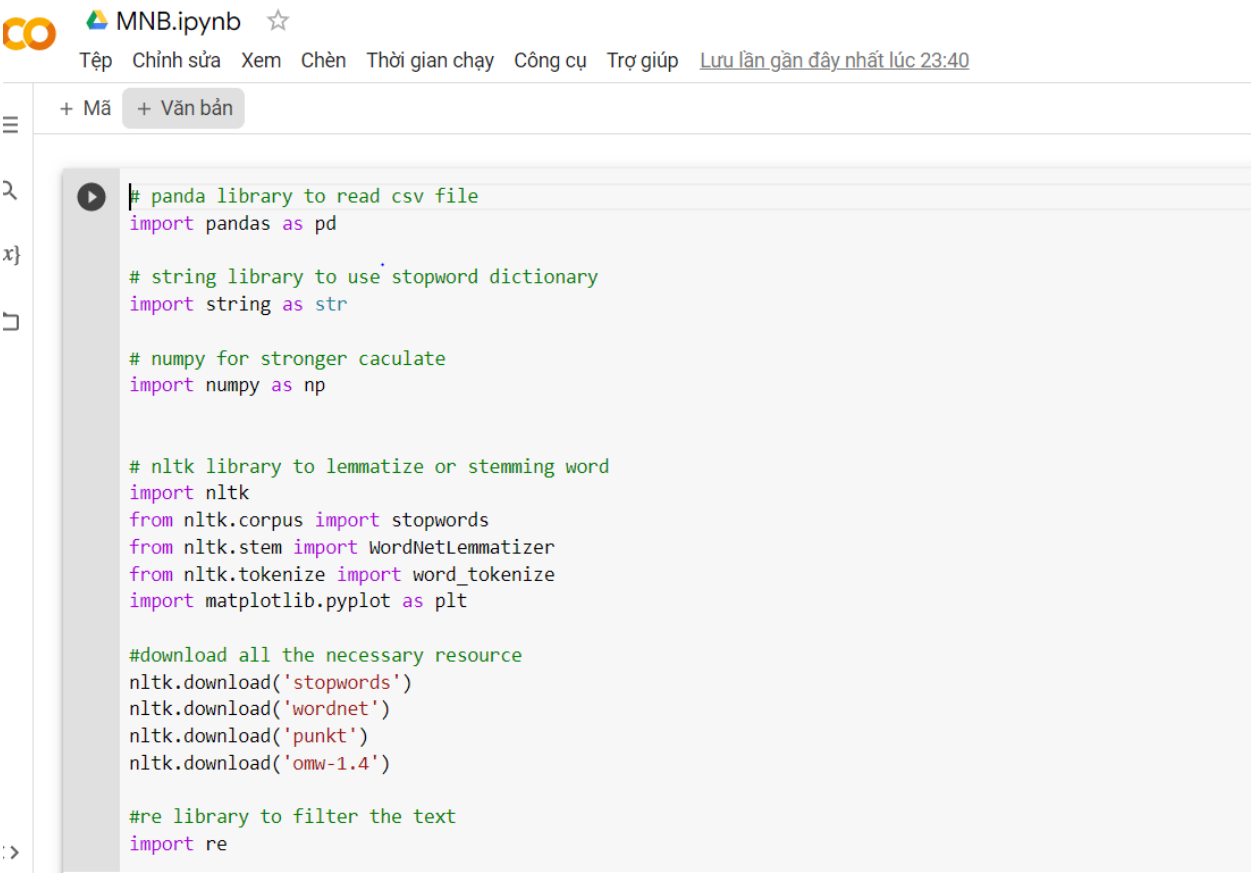
One another choice to launch jupyter notebook is on colab notebook of Google https://colab.research.google.com/



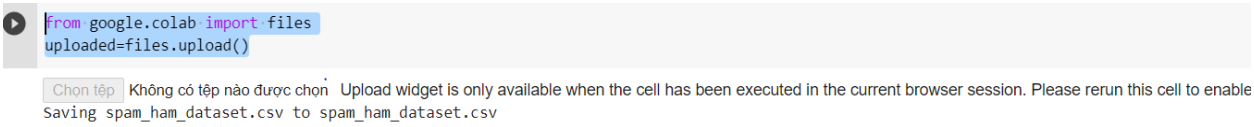
Click File/Tệp => Open notebook/Mở sổ tay =>Tải lên=>Chọn tệp



You will see:



Before launching ,please upload the dataset file(spam_ham_dataset.csv) by the following code:



2. file spam_ham_app.py

We write a small app using streamlit and the code is save in spam_ham_app.py

To run this app, please install all library we mentioned in section 1 first.

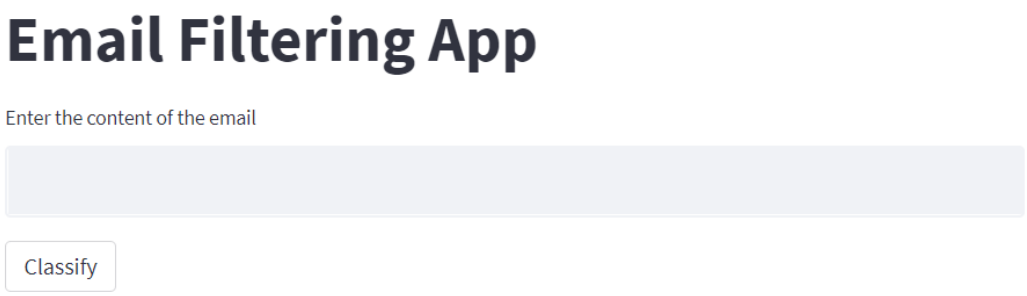
Then install the streamlit by:

pip install streamlit

To run the app ,use

streamlit run spam_ham_app.py

After that,you will see the interface(the app running on port 8501 of local host) :



Enter the content of the email and then click “Classify”. The predict result of our model will be shown below,for example: