```python
from sklearn.ensemble import RandomForestClassifier
from sklearn.datasets import make_classification
import pandas as pd

data = pd.read_csv('/content/drive/MyDrive/datasets/train_MachineLearningCVE.csv')
X, y = make_classification(n_samples=1000, n_features=4,
                           n_informative=2, n_redundant=0,
                           random_state=0, shuffle=False)
clf = RandomForestClassifier(max_depth=2, random_state=0)
clf.fit(X, y)
print(clf.predict([[0, 0, 0, 0]]))
```

⇨ [1]

```python
data = data.iloc[:,1:3]
X,y = data.shape
data = data.values.reshape((X,y))
# print(clf.predict([data]))\
```

```python
# print(data)

import pandas as pd
from sklearn.model_selection import train_test_split
from sklearn.metrics import mean_squared_error

from sklearn.ensemble import RandomForestRegressor
import xgboost as xgb
from sklearn.linear_model import LinearRegression

!pip install vecstack
from vecstack import stacking

df = pd.read_csv("QCM3.csv")

target = df.iloc[:,3:4]



# train = df.drop(:,3,3)
train = df

X_train, X_test, y_train, y_test = train_test_split(
    train, target, test_size=0.20)


model_1 = LinearRegression()
```

```python
model_2 = xgb.XGBRegressor()
model_3 = RandomForestRegressor()

all_models = [model_1, model_2, model_3]

s_train, s_test = stacking(all_models, X_train, X_test,
            y_train, regression=True, n_folds=4)

final_model = model_1

final_model = final_model.fit(s_train, y_train)

pred_final = final_model.predict(X_test)

print(mean_squared_error(y_test, pred_final))
```

```
Looking in indexes: https://pypi.org/simple, https://us-python.pkg.dev/colab-wheels/pub
Collecting vecstack
  Downloading vecstack-0.4.0.tar.gz (18 kB)
Requirement already satisfied: numpy in /usr/local/lib/python3.7/dist-packages (from ve
Requirement already satisfied: scipy in /usr/local/lib/python3.7/dist-packages (from ve
Requirement already satisfied: scikit-learn>=0.18 in /usr/local/lib/python3.7/dist-pack
Requirement already satisfied: joblib>=0.11 in /usr/local/lib/python3.7/dist-packages (f
Requirement already satisfied: threadpoolctl>=2.0.0 in /usr/local/lib/python3.7/dist-pa
Building wheels for collected packages: vecstack
  Building wheel for vecstack (setup.py) ... done
  Created wheel for vecstack: filename=vecstack-0.4.0-py3-none-any.whl size=19877 sha256
  Stored in directory: /root/.cache/pip/wheels/28/fe/0c/fe8e43660e3316d7ce204e59a7224
Successfully built vecstack
Installing collected packages: vecstack
Successfully installed vecstack-0.4.0
---------------------------------------------------------------------------
FileNotFoundError                         Traceback (most recent call last)
<ipython-input-3-df04b0b14069> in <module>
     10 from vecstack import stacking
     11
---> 12 df = pd.read_csv("QCM3.csv")
     13
     14 target = df.iloc[:,3:4]


                          ⌄ 7 frames ───────────────
                          ⌄
/usr/local/lib/python3.7/dist-packages/pandas/io/common.py in get_handle(path_or_buf, mo
                                                                           ●    ✕
```