12/18/23, 9:59 PM app.py

app.py

```
1
    import streamlit as st
    import pickle
 3
   import string
   import nltk
 4
   from nltk.corpus import stopwords
   from nltk.stem.porter import PorterStemmer
 7
    ps = PorterStemmer()
 8
 9
    def transform_text(message):
        message = message.lower()
10
        message = nltk.word_tokenize(message)
11
12
        y = []
13
        for i in message:
            if i.isalnum():
14
15
                y.append(i)
16
        message = y[:]
17
        y.clear()
18
        for i in message:
            if i not in stopwords.words('english') and i not in string.punctuation:
19
20
                y.append(i)
21
        message = y[:]
22
        y.clear()
23
        for i in message:
24
            y.append(ps.stem(i))
25
26
        return " ".join(y)
27
28
29
   tfidf = pickle.load(open('vectorizer.pkl','rb'))
    model = pickle.load(open('model.pkl','rb'))
30
31
   st.title("Email/SMS Spam Classifier")
32
33
   input sms = st.text input("Enter the message")
   if st.button('Predict'):
34
35
        #1.preprocess
36
        transform_sms = transform_text(input_sms)
37
        #2.vectorize
38
        vector input = tfidf.transform([transform sms])
39
        #3.predict
        result = model.predict(vector_input)[0]
40
41
    #Display
42
        if result == 1:
43
            st.header("Spam")
44
        else:
            st.header("Not spam")
45
46
47
```