

from sklearn.naive_bayes import MultinomialNB # Data Collection data = pd.read csv("https://raw.githubusercontent.com/amankharwal/SMS-Spam-Detection/master/spam.csv", encoding='latin-1') # Feature Selection data = data[["class", "message"]] x = np.array(data["message"]) y = np.array(data["class"]) # Choosing Model & Training The Model cv = CountVectorizer() = cv.fit_transform(x) # fit the data x_train, x_test, y_train, y_test = train_test_split(x, y, test_size=0.33, random_state=42) # another model clf = MultinomialNB() clf.fit(x_train, y_train) # import streamlit import streamlit as st st.title("Spam Detection System") def spamdetection(): user = st.text_area("Enter any Message or Email: ") if len(user) < st.write(" ") else: sample = user data = cv.transform[sample].toarray()
a = clf.predict(data) st.title(a) spamdetection()

You cannot run this code the same way you run your other Python programs. As we are using the streamlit library here, so you need to write a command mentioned below in your command prompt or terminal to run this code

streamlit run filename.py

Once this command executes, it will open a link on your default web browser that will display your end-to-end application for spam detection, as shown below

Summary

So this is how you can create an end-to-end spam detection system with Python. Spam detection is one of the machine learning projects that every data science beginner

must have tried once. So creating an end-to-end application for your project will turn out to be an advanced machine learning project. I hope you liked this article on how to create an end-to-end spam detection system with Python. Feel free to ask your valuable questions in the comments section below

Sheikh Rasel Ahmed

Data Science || Machine Learning || Deep Learning || Artificial Intelligence Enthusiast

LinkedIn - https://www.linkedin.com/in/shekhnirob1

GitHub - https://github.com/Rasel1435

Behance - https://www.behance.net/Shekhrasel2513

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