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import streamlit as st
import pandas as pd
from sklearn.model_selection import train_test_split
from sklearn.naive_bayes import GaussianNB, MultinomialNB
from sklearn.preprocessing import LabelEncoder
from sklearn.metrics import accuracy_score, confusion_matrix, classification_report

st.set_page_config(layout="wide")
st.title("Naive Bayes Classification App")

file = st.file_uploader("Upload Dataset", type=["csv"])
model_type = st.selectbox("Model", ["GaussianNB", "MultinomialNB"])
test_size = st.slider("Test Size", 0.1, 0.5, 0.2)

if file:
    df = pd.read_csv(file)
    st.write("Dataset", df)

    for col in df.select_dtypes(include="object").columns:
        df[col] = LabelEncoder().fit_transform(df[col])

    X = df.iloc[:, :-1]
    y = df.iloc[:, -1]

    X_train, X_test, y_train, y_test = train_test_split(X, y, test_size=test_size)

    model = GaussianNB() if model_type=="GaussianNB" else MultinomialNB()
    model.fit(X_train, y_train)

    preds = model.predict(X_test)

    st.write("Accuracy:", accuracy_score(y_test, preds))
    st.write("Confusion Matrix", confusion_matrix(y_test, preds))
    st.text(classification_report(y_test, preds))

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