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import pandas as pd
from sklearn.feature_extraction.text import TfidfVectorizer
from sklearn.model_selection import train_test_split
from sklearn.ensemble import RandomForestClassifier
from sklearn.metrics import accuracy_score
from nltk.corpus import stopwords
from nltk.stem import WordNetLemmatizer
import re
data = pd.read_csv("text_data.csv")
def preprocess_text(text):
    # Lowercasing
    text = text.lower()
    # Removing punctuation and special characters
    text = re.sub(r'[^\w\s]', '', text)
    # Removing stopwords
    stop_words = set(stopwords.words('english'))
    text = ' '.join(word for word in text.split() if word not in stop_words)
    # Lemmatization
    lemmatizer = WordNetLemmatizer()
    text = ' '.join(lemmatizer.lemmatize(word) for word in text.split())
    return text

data['clean_text'] = data['text'].apply(preprocess_text)
tfidf_vectorizer = TfidfVectorizer(max_features=1000)
X = tfidf_vectorizer.fit_transform(data['clean_text'])
y = data['label']
X_train, X_test, y_train, y_test = train_test_split(X, y, test_size=0.2, random_state=42)
model = RandomForestClassifier(n_estimators=100, random_state=42)
model.fit(X_train, y_train)
y_pred = model.predict(X_test)
accuracy = accuracy_score(y_test, y_pred)
print("Accuracy:", accuracy)
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