amazon-review

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```
[]: import pandas as pd
     from sklearn.feature_extraction.text import TfidfVectorizer
     from sklearn.naive_bayes import MultinomialNB
     from sklearn.pipeline import make_pipeline
[]: model = make_pipeline(TfidfVectorizer(), MultinomialNB())
     train_data_all = pd.read_json("dataset_ja_train.json", orient="records",__
      →lines=True)
     train_data = train_data_all["review_body"]
     train_target = train_data_all["stars"]
     len(train_data_all)
[]: 200000
[]: model.fit(train_data, train_target)
[]: Pipeline(steps=[('tfidfvectorizer', TfidfVectorizer()),
                     ('multinomialnb', MultinomialNB())])
[]: test_data_all = pd.read_json("dataset_ja_test.json", orient="records",__
     →lines=True)
     test_data = test_data_all["review_body"]
     test_target = test_data_all["stars"]
     len(test_data_all)
[]: 5000
[]: print('Train accuracy = %.3f' % model.score(train_data, train_target))
     print(' Test accuracy = %.3f' % model.score(test_data, test_target))
    Train accuracy = 0.992
     Test accuracy = 0.318
```