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```
# Import necessary Libraries import pandas as pd from
sklearn.model_selection import train_test_split from
sklearn.linear_model import LogisticRegression from
sklearn.metrics import accuracy_score

# Load the dataset data = pd.read_csv( ' /content/diabetes . csv' ) # Replace
'diabetes_dataset.csv' 'u
-with your dataset

Data preprocessing
(handle missing values, scale/normalize features,
etc.)

Split data into features and
target variable X data.drop( '
Outcome' , axis=1) y data [ '
Outcome '

Split the data into training and testing sets
X_train, X_test, y_train, y_test = train_test_split(X, y, test size=0.2
random_state=42)

Choose a model and train
it model =
LogisticRegression ( )
model . fit (X_train,
y_train)

# Make predictions predictions =
model . predict (X_test)

# Evaluate the model accuracy = accuracy_score
(y_test, predictions) print (f " Accuracy:
{accuracy})
```

Accuracy: 0.7467532467532467

/usr/local/lib/python3.10/dist-packages/sklearn/linear_model/_logistic . py :
458 :

ConvergenceWarning: lbfgs failed to converge (status=1) :
STOP: TOTAL NO. of ITERATIONS REACHED LIMIT.

Increase the number of iterations (max_iter) or scale the data as shown in: <https://scikit-learn.org/stable/modules/preprocessing.html>

Please also refer to the documentation for alternative solver options:

https://scikit-learn.org/stable/modules/linear_model.html#logistic-regression
n_iter_i = _check_optimize_result (