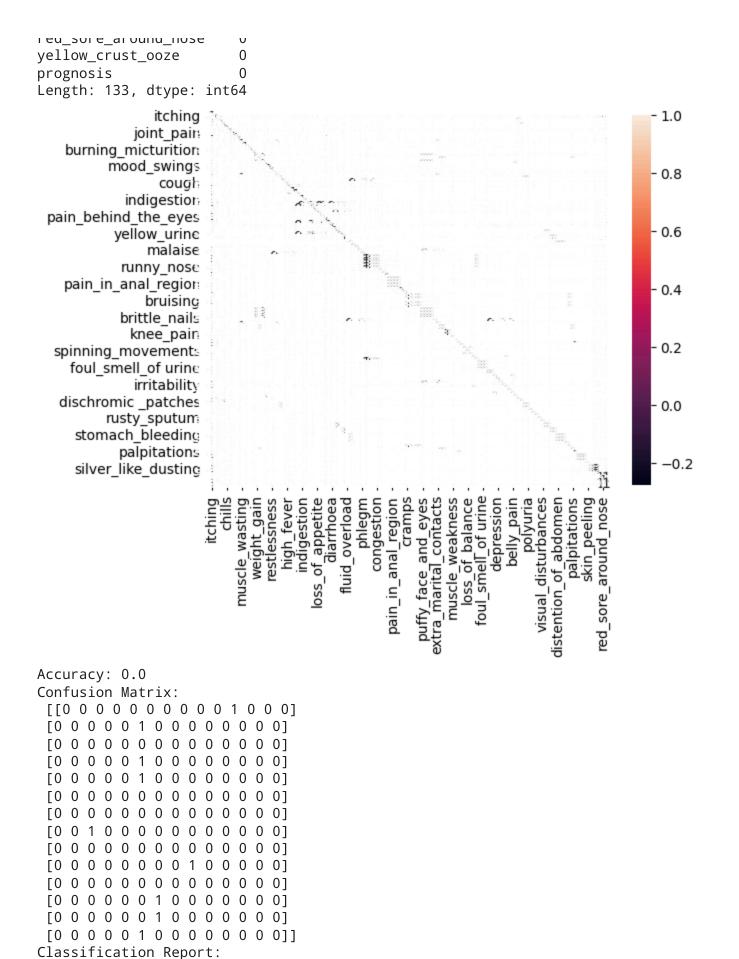
```
# Importing necessary libraries
import pandas as pd
import numpy as np
import seaborn as sns
import matplotlib.pyplot as plt
from sklearn.model_selection import train_test_split
from sklearn.linear_model import LogisticRegression
from sklearn.metrics import classification report, confusion matrix, accuracy score
# Load the dataset
from google.colab import files
uploaded = files.upload()
df = pd.read_csv("Testing.csv")
# Basic info
print(df.head())
print(df.describe())
print(df.info())
print(df.columns)
# Check for null values
print(df.isnull().sum())
# Correlation matrix
sns.heatmap(df.drop('prognosis', axis=1).corr(), annot=True)
plt.show()
# Splitting the dataset
X = df.drop('prognosis', axis=1)
y = df['prognosis']
X_train, X_test, y_train, y_test = train_test_split(X, y, test_size=0.2, random_state=0)
# Logistic Regression
model = LogisticRegression()
model.fit(X_train, y_train)
# Predictions
predictions = model.predict(X_test)
# Evaluation
print("Accuracy:", accuracy_score(y_test, predictions))
print("Confusion Matrix:\n", confusion_matrix(y_test, predictions))
print("Classification Report:\n", classification_report(y_test, predictions))
```

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Choose Files | Testing.csv
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Testing.csv(text/csv) - 13781 bytes, last modified: 5/7/2025 - 100% done Saving Testing.csv to Testing.csv shivering itching skin_rash nodal_skin_eruptions continuous_sneezing 0 1 0 0 0 0 0 1 1 1 2 0 0 0 0 0 3 0 0 0 0 1 4 1 1 0 0 0 chills joint pain stomach_pain acidity ulcers_on_tongue 0 0 0 0 0 0 . . . 0 1 0 0 1 0 . . . 2 0 0 1 1 1 . . . 3 0 0 0 0 0 . . . 0 0 1 0 4 0 . . . blackheads scurring skin_peeling silver_like_dusting 0 0 0 0 0 1 0 0 0 0 2 0 0 0 0 3 0 0 0 0 4 0 0 0 0 small_dents_in_nails inflammatory_nails blister red sore around nose 0 0 0 0 0 0 0 0 0 1 2 0 0 0 0 3 0 0 0 0 4 0 0 0 0 yellow_crust_ooze prognosis 0 Fungal infection 0 0 1 Allergy 2 0 **GERD** 3 0 Chronic cholestasis 4 0 Drug Reaction [5 rows x 133 columns] itching skin_rash nodal_skin_eruptions continuous_sneezing 42.000000 42.000000 42.000000 42.000000 count mean 0.166667 0.190476 0.023810 0.047619 std 0.377195 0.397437 0.154303 0.215540 min 0.000000 0.000000 0.000000 0.000000 25% 0.000000 0.000000 0.000000 0.000000 50% 0.000000 0.000000 0.000000 0.000000 75% 0.000000 0.000000 0.000000 0.000000 1.000000 1.000000 1.000000 1.000000 max joint_pain shivering chills stomach_pain acidity 42.000000 count 42.000000 42.000000 42.000000 42.000000 0.023810 0.142857 0.047619 0.047619 mean 0.166667 std 0.154303 0.377195 0.354169 0.215540 0.215540 0.00000 min 0.000000 0.000000 0.000000 0.000000 25% 0.000000 0.000000 0.000000 0.000000 0.000000 50% 0.000000 0.000000 0.000000 0.000000 0.000000

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[8 rows x 132 columns]
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Columns: 133 entries, itching to prognosis
dtypes: int64(132), object(1)
memory usage: 43.8+ KB
None
Index(['itching', 'skin_rash', 'nodal_skin_eruptions', 'continuous_sneezing',
        'shivering', 'chills', 'joint_pain', 'stomach_pain', 'acidity',
       'ulcers_on_tongue',
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       'blackheads', 'scurring', 'skin_peeling', 'silver_like_dusting',
       'small_dents_in_nails', 'inflammatory_nails', 'blister',
'red_sore_around_nose', 'yellow_crust_ooze', 'prognosis'],
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Fungal infection	0.00	0.00	0.00	0.0
Heart attack	0.00	0.00	0.00	0.0
Hypertension	0.00	0.00	0.00	1.0
Hypoglycemia	0.00	0.00	0.00	0.0
Migraine	0.00	0.00	0.00	1.0
Paralysis (brain hemorrhage)	0.00	0.00	0.00	0.0
Pneumonia	0.00	0.00	0.00	1.0
Tuberculosis	0.00	0.00	0.00	1.0
Varicose veins	0.00	0.00	0.00	1.0