```
!pip install pandas numpy scikit-learn
# Step 2: Import libraries
import pandas as pds np
import matplotlib.pyplot as plt
import sea
import numpy aborn as sns
from sklearn.model selection import train test split
from sklearn.preprocessing import StandardScaler, LabelEncoder
from sklearn.linear model import LogisticRegression
from sklearn.metrics import accuracy score, confusion matrix,
classification_report
from google.colab import files
uploaded = files.upload()
df = pd.read csv("Global Health Statistics.csv")
# Step 4: Data Preprocessing
df["Availability of Vaccines/Treatment"] = df["Availability of
Vaccines/Treatment"].map({"Yes": 1, "No": 0})
selected features = [
X = df[selected features]
```

```
Handling missing values (if any)
X = X.fillna(X.mean())
# Step 5: Train-Test Split
X_train, X_test, y_train, y_test = train_test_split(X, y, test size=0.2,
random state=42)
# Step 6: Feature Scaling
scaler = StandardScaler()
X train = scaler.fit transform(X train)
X test = scaler.transform(X test)
# Step 7: Train Logistic Regression Model
model = LogisticRegression()
model.fit(X train, y train)
# Step 8: Make Predictions
y pred = model.predict(X test)
# Step 9: Evaluate Model Performance
accuracy = accuracy score(y test, y pred)
conf matrix = confusion matrix(y test, y pred)
classification rep = classification report(y test, y pred)
print(f"Model Accuracy: {accuracy:.2f}")
print("\nConfusion Matrix:")
print(conf matrix)
print("\nClassification Report:")
print(classification rep)
# Step 10: Visualizing Confusion Matrix
plt.figure(figsize=(5, 4))
sns.heatmap(conf matrix, annot=True, cmap="Blues", fmt="d",
xticklabels=["No", "Yes"], yticklabels=["No", "Yes"])
plt.xlabel("Predicted")
plt.ylabel("Actual")
plt.title("Confusion Matrix")
plt.show()
```

