import pandas as pd

import numpy as np

from sklearn.model\_selection import train\_test\_split

from sklearn.linear\_model import LinearRegression

from sklearn.metrics import mean\_squared\_error, r2\_score

import requests

from io import StringIO

# Load the dataset from the URL

url = 'https://github.com/YBIFoundation/Dataset/raw/main/Admission%20Chance.csv'

response = requests.get(url)

# Read the content of the CSV file from the response

csv\_data = StringIO(response.text)

# Read the dataset into a pandas DataFrame

df = pd.read\_csv(csv\_data)

# Define the features (X) and target variable (y)

X = df[['GRE Score', 'TOEFL Score', 'University Rating', 'SOP', 'LOR ', 'CGPA', 'Research']]

y = df['Chance of Admit']

# Split the data into training and testing sets (80% train, 20% test)

X\_train, X\_test, y\_train, y\_test = train\_test\_split(X, y, test\_size=0.2, random\_state=42)

# Create a Linear Regression model

model = LinearRegression()

# Train the model on the training data

model.fit(X\_train, y\_train)

# Make predictions on the test data

y\_pred = model.predict(X\_test)

# Evaluate the model

mse = mean\_squared\_error(y\_test, y\_pred)

r2 = r2\_score(y\_test, y\_pred)

# Print the model's performance metrics

print(f"Mean Squared Error: {mse:.2f}")

print(f"R-squared (Coefficient of determination): {r2:.2f}")