**2- Logistic Regression Exercise - Handout**

**Objective:**

In this exercise, you will learn how to implement a logistic regression model using Python. You will fill in the missing code to preprocess the data, select features, split the data into training and testing sets, train the model, and evaluate its performance. By the end of this exercise, you should understand the basic workflow of building a machine learning model for binary classification and how to assess its accuracy.

**Instructions:**

1. **Import Libraries**: Ensure you have the necessary libraries imported (pandas, sklearn, kagglehub).
2. **Download and Load the Dataset**: Use kagglehub to download the dataset and load it into a pandas DataFrame.
3. **Preprocess the Data**:
   * Convert the Chance of Admit column to a binary classification (1 if the chance is 0.75 or higher, otherwise 0).
   * Select the features GRE Score, TOEFL Score, and CGPA for your model.
   * Define the target variable as the binary Chance of Admit.
4. **Split the Data**: Split the dataset into training and testing sets using train\_test\_split.
5. **Train the Model**: Fit a LogisticRegression model using the training data.
6. **Predict and Evaluate**: Use the model to make predictions on the test data and calculate the accuracy to evaluate the model's performance.