## Artificial Intelligence and Machine Learning

Project Report

Semester-IV (Batch-2022)

**Case Study**: - String Methods

[Url:-](about:blank) <https://drive.google.com/file/d/1r8CWPQPQIzKavINCD6do831jN3CuyScu/view?usp=sharing>

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**Description about Case Study: -**

● Read the given Technologies Dataset.

● Convert lowercase column , use str.lower()

● Convert lowercase column, use apply()

● Use apply() & lambda function

● Use the str.strip() method.

● Use the str.split() method.

● Use the str.contains() method.

● Use the str.replace() method.

● Use the str.startswith() method

● Use the str.endswith() method

● Use the str.get() method

● Use the str.slice() method

● Use the str.find() method.

**Library: -**

* Pandas

**Methods: -**

1. str.lower():

Description: This method returns a copy of the string with all its characters converted to lowercase.

2. str.len():

Description: This is not a method of string objects in Python. Instead, you would use len() function to get the length of a string.

3. str.strip():

Description : This method returns a copy of the string with leading and trailing whitespace removed.

4. str.split():

Description: This method splits a string into a list of substrings based on a specified separator.

5. str.contains():

Description: This method is not a built-in method for Python strings. However, it is a method in the pandas library used for string matching operations on Series and Indexes.

6. str.replace():

Description():This method returns a copy of the string with all occurrences of a specified substring replaced with another substring.

7. str.startswith():

Description: This method returns True if the string starts with the specified prefix; otherwise, it returns False.

8. str.endswith():

Description: This method returns True if the string ends with the specified suffix; otherwise, it returns False.

9. str.get():

Description: This method is not a standard method for Python strings. However, it might refer to the .get() method used with dictionaries to retrieve a value for a given key.

10. str.slice():

Description: This is not a method for Python strings. Instead, you would typically use slicing syntax like str[start:end] to extract a portion of the string.

11. str.find():

Description: This method returns the lowest index in the string where the specified substring is found. If the substring is not found, it returns -1.