

Artificial Intelligence

Lab 06

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Batch: BSCS-6th semester

Tasks

Task 1: Consider 2-d array and Convert all the elements of a numpy array from float to Bool datatype.

```
import numpy as np

# Creating a 2D numpy array with float values
arr = np.array(object [[0.0, 1.5, -3.2], [4.8, 0.0, 2.1]], dtype=float)

# Converting to boolean
bool_arr = arr.astype(bool)

# Dant(bool_arr)

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# Convert
```

Task2:

Write a Python program that uses insert function to add an element to a specific position in a array.

- add the element 55 at position 2.
- Print the updated array after the insertion.

Task3:

Generate a sequence of numbers in the form of a numpy array from 0 to 100 with gaps of 2 numbers, for example: 0, 2, 4

Task 4:

Given 2 numpy arrays as matrices, output the result of multiplying the 2 matrices as a numpy array

Task5:

Consider a 1-d array and check whether the specific number is present or not?