

Institute of Engineering and Management, New Town Campus

University of Engineering and Management, Kolkata

Assignment-9, First/Second Semester-2025

Course Name: Introduction to AI and Data Science using Python

Laboratory

Course Code: ESCCS192/ESCCS292

- 1 Create a NumPy array of the first 10 even numbers.
- 2 Write a Python program to take input and display the values of 2 dimensional NumPy array
- 3 Write a Python program to transpose and reshape a 2-dimensional NumPy array
- 4 Write a Python program to find the determinant and inverse of NumPy matrix.
- 5 Create two 2x2 NumPy arrays. Perform element-wise addition, subtraction, and multiplication on these arrays
- 6 Create a NumPy array of 10 random floating-point numbers. Calculate the mean, median, and standard deviation of this array.
- 7 Create a NumPy array of 15 random integers. Sort the array in ascending order. Use NumPy functions to find the index of the maximum and minimum elements in the sorted array.