4. Introduction to Numpy

Project0 due Feb 15, 2023 08:59 -03 Completed

Here, we introduce Numpy, a mathematics framework for Python.

Fundamentals of Numpy

0:00 / 0:00 1.0x

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Randomization

1.0/1 point (graded)

Write a function called `randomization` that takes as input a positive integer `n`, and r
1 Numpy array.

Available Functions: You have access to the NumPy python library as np

Grader note:: If the grader appears unresponsive and displays “Processing", it means (
crashed. Please resubmit your answers, and leave a message in the forum and we will
as possible.

```
1 def randomization(n):
```

CORRECT

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Here, we learn how to find dimensions and apply matrix multiplication using Numpy arra

Matrix Properties and Operations

0:00 / 0:00 1.0x

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Operations

1.0/1 point (graded)
Write a function called `operations` that takes as input two positive integers `h` and
matrices `A` and `B`, of size h x w, and returns `A`, `B`, and `s`, the sum of `A` and `B`

```
15      A = np.random.rand(h,w)
```

Press ESC then TAB or click outside of the code editor to exit

Correct

Test results

CORRECT

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Here, we learn how to find the maximum and minimum values in a Numpy array and obt

Max, Min, and Norm

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```
    Arg:
      A - a Numpy array
      B - a Numpy array
    Returns:
      s - the L2 norm of A+B.
    """
    S = A + B
    s = np.linalg.norm(S)
    return s
    raise NotImplementedError
```

Press ESC then TAB or click outside of the code editor to exit

Correct

Test results

CORRECT

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Discussion

Topic: Unit 0. Brief Prerequisite Reviews, Homework 0, and Project 0:Project 0 Setup, Numpy Exercises,

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why tanh() in neural network

Why do we apply tanh() after matrix multiplication? To make the final result more dramatic? In some video, th

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