**Machine Learning In Finance**

**Lablog book week 1:**

import numpy as np

# SID

sid = "2420077"

# Extract last two digits

last\_two\_digits = int(sid[-2:]) # 77

# Determine number of elements

num\_elements = last\_two\_digits if last\_two\_digits >= 10 else last\_two\_digits + 100

# Create vector using np.arange

a = np.arange(num\_elements)

# Change to 2D array with 1 row

a\_2d = a.reshape(1, -1)

# Print the 2D array

print("2D array a\_2d:")

print(a\_2d)

# Save it in another array

b = a\_2d.copy()

# Print the new array

print("Copied array b:")

print(b)

# Check the shape

print("Shape of array b:", b.shape)

**Output:**

