# MY ML Journey

## Introduction to ML

* Training vs Inference
* Sophisticated vs unsophisticated
* Classification vs regression

## Numpy

### Basic Operations

* Myarr=np.array()
* Myarr.ndim (dimentions)
* Myarr.dtype (datatype)
* Myarr=np.array([],dtype=np.floa64) (explicit datatype )
* Myarr.size (number of elements)
* Myarr.itemsize (size of each element)
* Myarr.shape (row and columns)
* Myarr.reshape(3,2) (change dimention but must be compatible)
* Myarr.min() and Myarr.max()
* Myarr.sum(axis=1) for row addition Myarr.sum(axis=0) for column addition
* Np.sqrt(Myarr) , Np.square(Myarr) , Np.std(Myarr)
* Np.sort(Myarr) (sorting)
* Np.sort(Myarr,axis=None ) (array become flateened)
* Np.zeros((2,3)) (array with zeros and 2\*3 dimention)
* Np.arrange(20,30,2) (array elements from 20-30 even only)
* Np.linespace(10,20,5) (array with 5 elements with proper spacing)
* Np.ravel() (return new flateened array)
* Np.flatten (return new + change original)

### Matrix Operations

A screenshot of a computer

AI-generated content may be incorrect.

### A white background with black text AI-generated content may be incorrect.

### Matrix Opereation(splicing,stalking)

### A screenshot of a computer AI-generated content may be incorrect.

A screenshot of a computer program

AI-generated content may be incorrect.

