WEEK 1

1.What is ml?

ANS: The process of training algorithms with datasets to produce models that can categorise predict outcomes data is known as machine learning. ML models they can rules from vast amounts of data, unlike classification & traditional programming

2.What supervised ml algo?

ANS: Supervised ml is a labelled data in a linearly regression

3.what is regression and classification?

ANS: Regression:

\*In machine learning, regression is a supervised learning method that models the relationship between a continuous output variable and input features, allowing for numerical value estimation and prediction

Classification:  
\* In machine learning, classification is a supervised learning procedure that uses input features to group data into predefined classes

Create a google colob file and upload the dataset,import all libraries,read the data using read csv(),print first 5 records,print info()?

import numpy as np

import pandas as pd

import matplotlib.pyplot as plt

import seaborn as sns

# Assign the DataFrame returned by pd.read\_csv to a variable (df in this case)

df = pd.read\_csv("/content/24f8996b599028111827.csv")

df.head()

| **index** | **N** | **P** | **K** | **temperature** | **humidity** | **ph** | **rainfall** | **label** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **0** | 90 | 42 | 43 | 20.87974371 | 82.00274423 | 6.502985292000001 | 202.9355362 | rice |
| **1** | 85 | 58 | 41 | 21.77046169 | 80.31964408 | 7.038096361 | 226.6555374 | rice |
| **2** | 60 | 55 | 44 | 23.00445915 | 82.3207629 | 7.840207144 | 263.9642476 | rice |
| **3** | 74 | 35 | 40 | 26.49109635 | 80.15836264 | 6.980400905 | 242.8640342 | rice |
| **4** | 78 | 42 | 42 | 20.13017482 | 81.60487287 | 7.628472891 | 262.7173405 | rice |

Show 102550100 per page

**Distributions**A graph of blue bars

AI-generated content may be incorrect.

A graph of blue rectangular bars

AI-generated content may be incorrect.

A graph with blue bars

AI-generated content may be incorrect.

A graph of blue vertical lines

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**2-d distributions**

A graph with blue dots

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A graph with numbers and dots

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A graph of a number of points

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A graph with blue dots

AI-generated content may be incorrect.

**Time series**

A line graph with a green line

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AI-generated content may be incorrect.

**Values**

A blue line graph with white text

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A line graph with numbers and symbols

AI-generated content may be incorrect.

A line graph with numbers and symbols

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A graph with a line

AI-generated content may be incorrect.