**# Linear-Regression-01**

A Brief review on Machine learning :

**ML**

**Supervisor , unsupervisor learning Liner gression**

Super vector machine

Ready mathematic models give me us a learning

Algorithms divided into : a computer can learn sth based on these ones

1.Supervised : yadgiri ba nezart

2.semisupervised

4.Unsupervised

4.reinforcment

######################################################

* **Pandas**: helps to work with datas
* **Numpy** : for arrays and work with matrix
* **Matplotlib** to draw graph, output graphm what model does
* **Sklearn**: a module for AI and ML models exist pishfarz

IDPL pfod github , check it just for info

#####################################################

**Liner Regression**

In cmd:

Make folder ML , inside make venv ,

C:\mydrive\ML>python -m venv venv

C:\mydrive\ML>venv\scripts\activate

!!! in ML folder install all dependencies , ML is Parent Folder

(venv) C:\mydrive\ML>pip install pandas numpy sklearn notebook matplotlib

pip install scikit-learn

Subfolder session01

(venv) C:\mydrive\ML\ML1>python -m notebook

Execute to see imports are OK !

(venv) C:\mydrive\ML>python -m notebook

import pandas as pd

import numpy as np

import matplotlib.pyplot as plt

import sklearn

############################################################

**https://archive.ics.uci.edu/dataset/320/student+performance**

import pandas as pd

import numpy as np

import matplotlib.pyplot as plt

import sklearn

df = pd.read\_csv("student-por.csv",sep=";")

df.head()

theory starts:

We have dimension as the amount of our features , our algorithm amount increases y=m1x+m2x,….+b

This style just takhmins not classified !!! remember , model exist as default in skil