Nourse

Day 1

[Complete Data Science, MI, DL, NLP]

[Note]: Greating environment with python: Python -m very myen OR conda create -p venv Python == 3.10 -y myenv/Scripts/activate

Python

Syntax and Semantics -> What the code is supposed to do when it runs. correct arrangement of words & symbols in a code

Basic Syrdax rules in lython

4 Case sensitive (et is case-sensitive larg.)

5 Identation (uses it to define blocks of code)

4 Comments (Single line & Multiline)

Is line continuation (total = 1+2+3+1 # gres ofp: 21)

(use backslash to continue a statement to the next line)

Variables in lython

I fundamental dements in programming

Is used to stone data that can be refrenced I maripulated

is In python, they do not need to be explicitly declared

y Declaration happens automatically when you assign

Naving conventions: 1) should be descripting

4) Cose sassitina 5) must not reserve read

2) Must Stast with letter or -

3) contains letters, nois & underscores

> Python is dynamically typed - type of variable is determined at rustime. It also allows type of a ran to charge as the program executes.

Variable types: Int flood 8hr bool

Type checking: type (var-name)

Type casting: Ex: float (Intervariance)

Data types in lythen

Is the a darsification of data which tell the compiler or interfrater how the programmer indends to use the data.

+ Octa types ensures data is stored in an efficient way.

4 They help in Performing correct operations on data 4 can Prevent errors & bygs on the program.

Basic data types: Integers, floating Pt. 100's, strings, booleans Advanced data types: lists, Tuples, Sets, Dictionaries

Operators in lyther

Arithmetic: Addr. subtr. Hustiplicate, division, flower division, Comparison, equal to, not equal to, >, <, >=, <= modulus, exponentiation

hogical: And, or, not

Joops an lython; for, while, nested laps

Jap control statements breek, ortinue, pars