Day 1:

Machine Learning

Fusemachines.com

Data science venn diagram.

R vs. Python –( R, is statistical focused.)

Ethical Hacking – Python

Mathematics for machine learning.

PIP – Package Manger

What is pip? – Interview question.

Pip is the standard package manger for Python., Pypi.org, Jupyter.org

Go to Lab2 folder and type CMD on the folder name and type Jupyter notebook.

Google colabatory – Work on Python program.

Program is a set up instruction that computer performs

Press Shift Enter.

# hash gives comments in Python. Does not recognize code.

Interview Question:

Modules(%) means - remainder.

Exponentiation (\*\*) – To the power of

Floor division (//) 15/2 = 7 not 7.5 muni ko value lincha.

Exit() to leave the terminal.

What is dynamic typing?

* Difference operator ( middle – is called)
* Operands
* Assignment operator
* First name : variable name/object 60.5 is value

**Ipynb:** I interactive,Py – python**,** Nb – notebook

What is python – interpreter language, dynamic typing language, high level.

What is arithmetic operator?

Variable: is a named location used to store data in memory.

Keywords are the reserved words in Python. – Keywords are case sensitive in Python.

Case sensitive: upper case and lower case names are treated differently. Python is case sensitive language Why? False and false are different.

Num1 – must be given in the front.

Upper case and lower case is possible, digits (0-9) are possible at the back. Underscore is possible

Overriding variable.

True and False is a Boolean operator.

Python type casting : use the predefined

Expression – is any statement after “if”

Statement is an instruction that Python interpreter can execute.

Expression always returns a value:; Combination of values, variables, operators, and calls to function.

<http://www.stackoverflow.com> – to find information on Python.

What is module: folder that is inside Python.

Pwd: path

Clr – clear

-m – is module.

Ls –

Logical operators:

And operator: = both conditions has to be true.

Or operator: = one condition must be true.

Not operator = negation

Assert – debugging python program/code.

Indexing = big bracket

Function = small bracket

Range:

Slicing: it does not take end value. You must type colon (:)

Overleaf.com - research paper

List: collection of item under single/one variable name.

Membership operator:

Python list are mutable.

String is not mutable.

Append – adds string or variable at the end.

Kaggle.com

Remove = first word it wont get rid off

Stack is data structure - Last in first out –

Pop removes the last from the list. Comes out of the list.

GIT HUB

git init

git add \*

git commit -m “first commit”

git config --global user.name “avisekregmi”

git config --global user .email [avisek.regmi@gmail.com](mailto:avisek.regmi@gmail.com)

git branch -M main

git remote add origin <https://github.com/avisekregmi/Python_class3pm.git>

git push –u origin main

git add \*

git commit –m “I created new file”

git push –u origin main

git pull “url name”

git clone “add url

Invitea other coders to work together

Settings – collaborators – enter password – add people (enter email address)

Beatiful soup.

Scrapping means: extrapolate data. Data scraping involves **pulling information out of a website and into a spreadsheet**. To a dedicated data scraper, the method is an efficient way to grab a great deal of information for analysis, processing, or presentation.

Unicode error:

df = pd.read\_csv(‘filename, encoding = ISO-8859-1’)