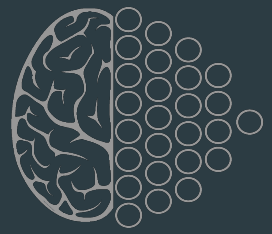
Lecture 2

INTRODUCTION AND APPLICATIONS OF MACHINE LEARNING



Contacts

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Colab Notebook

Click on the title to open the Google Colab notebook.

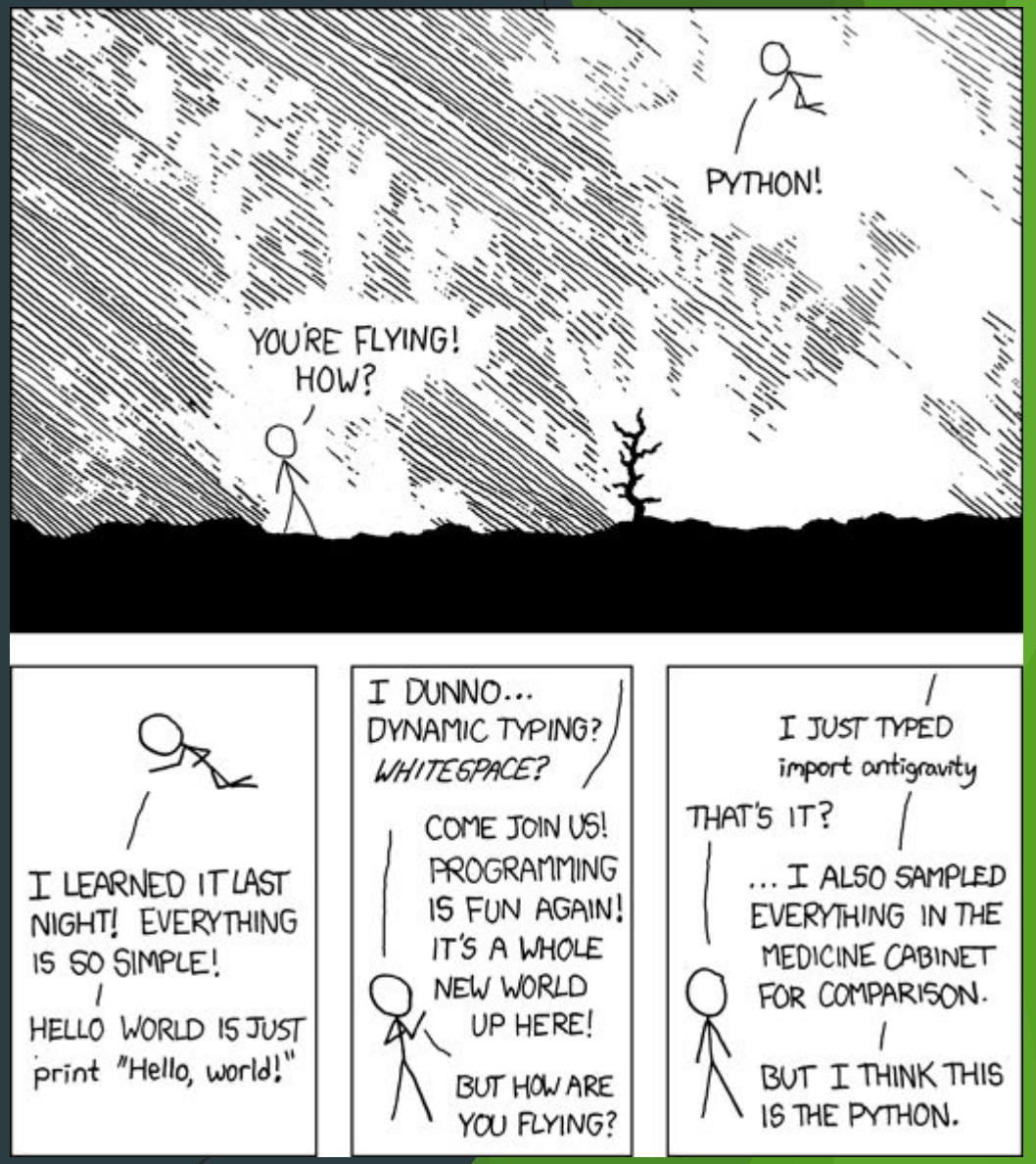
The main notebook will be a view only notebook.

Click on file and select ‘Save a copy on Drive’ and then play around with the values which are given.

We have given examples of some of the errors you may run into while executing the functions but we encourage you to try different values on your own and test the functions out

Getting Started with Python

- In this tutorial we will learn how to use various python modules which is essential to understand the implementation of machine learning algorithms
- Anyone who wants to automate some task or deal with datasets for example, eventually ends up learning python



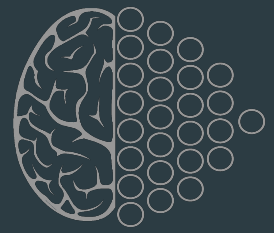
Python topics to be taught

- We will be starting form the absolute basics of python. We will be teaching :-
  - Data Types
  - Containers (such as Lists, Dictionaries, Sets and Tuples)
  - Functions
- Click here to open the colab notebook. Feel free to play around with the values and functions in there!

Starting off with NumPy

- NumPy is used extensively throughout the field of machine learning. The main feature of numpy being array and matrix manipulation and calculation
- In today's lecture we will be going over the basics of NumPy wherein we show you how to create arrays, change the values, indexing arrays as well as carrying out some basic maths on the sa,e

References

- https://www.conceptsofdeeplearning.tech/python
- https://www.w3schools.com/python/python_ml_getting_started.asp
- https://docs.python.org/3/tutorial/index.html

THANK YOU!