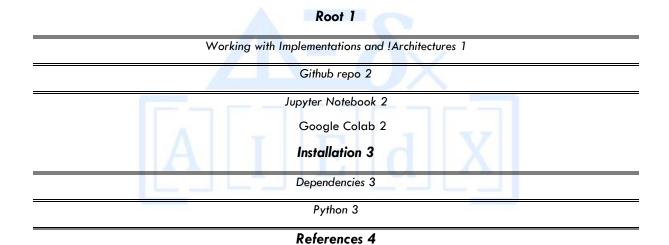# CHOCOLATE CHIP MUFFIN: PROGRAMMING BASICS FOR MACHINE LEARNING

LESSON 3 BASIC

WORKING WITH IMPLEMENTATIONS AND !ARCHITECTURES

The Great chocolate chip muffin problem

Hi There I would like to buy a chocolate chip muffin

Baker gives me this

(Chocolate muffin with chips)

I was expecting this

(Regular muffin with chips)

Both types of muffin can be considered as "Chocolate Chip Muffin". They are both implementation of a great original idea. (I Still think my choice is correct) 😊

In Computer Engineering we work with implementations of programming language (not language itself)

In machine learning (data engineering) we work with implementation of model/architecture not (SOTA) architecture itself.

Unless of course you are yourself trying to improve the language/framework or architecture or contributing to it in some form.

GITHUB REPO

https://github.com/AIEdX

JUPYTER NOTEBOOK

Jupyter (IPython) notebook files are simple JSON documents, containing text, source code, rich media output, and metadata. Each segment of the document is stored in a cell.[1]

Advantages

- Interleave Code and Comment cell.
- Great to showcase proof of concepts or demonstration of experimental setup.
- Can create complete book style lessons for education with theory and code in same notebook.
- Runs in a browser and it's easy to share notebooks.
- Great for instant and shallow debugging.
- Its not an IDE (Integrated Development Environment)

Disadvantages

- Its not an IDE (Integrated Development Environment)!

GOOGLE COLAB

Alternatives

- Paperspace
- Amazon SageMaker
- Kaggle

- Many More!!!!!

INSTALLATION

DEPENDENCIES

PYTHON

Adding Path using existing script

REFERENCES

[1] *Jupyter Notebook*. (n.d.). Retrieved from https://nbformat.readthedocs.io/en/latest/