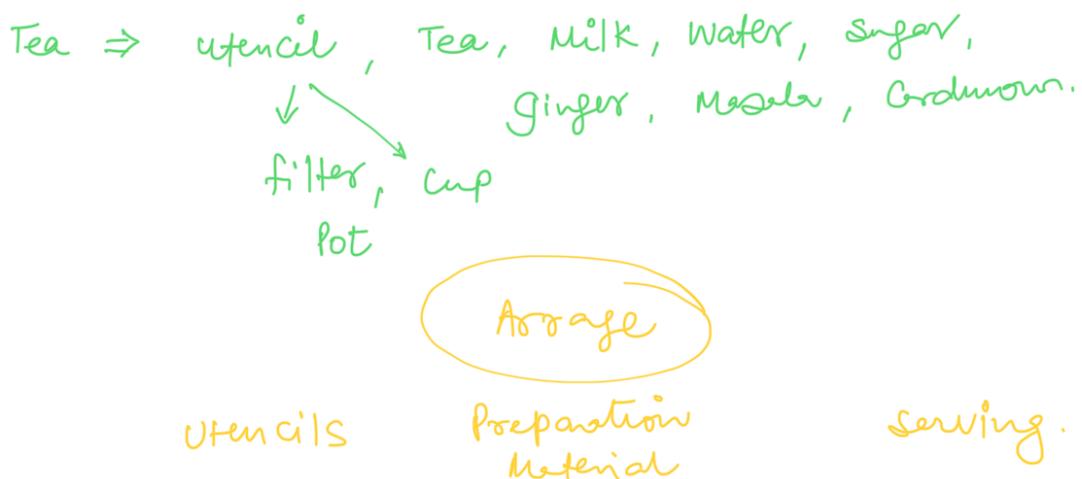


## Modular Project Structure

Building something.  
like a kitchen.  
↳ organized.



## Data Science



## Modular Str'

- ① loading data ✓ → data-loader.py ✘
- ② Preprocessing | EDA ✓ → preprocessing.py  
feature Engg. Exploratory Data Analysis

- ③ Modeling ✓ → model.py
- ④ Evaluation ✓ → evaluation.py
- ⑤ main.py → Stitch everything

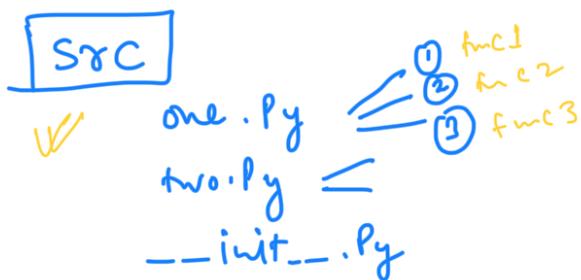
## # Module & Packages:

module ⇒ a single .py file  
 e.g. → **model.py** = a module

Package ⇒

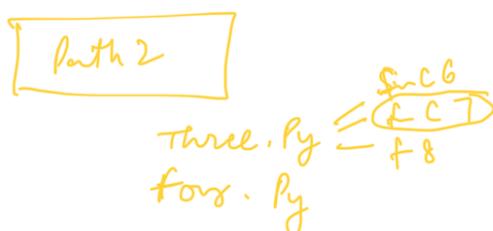
**src/**

- \_\_init\_\_.py
- Preprocessing.py
- eda.py



from path2.three import func7

import from diff. Package



from .one import func1

import from same Package

## # Virtual Environment:

**Box**

Dockerfile → run this Project.

ranges - - - - -  
diff. projects may need diff. versions of Packages  
hence creating a virtual env. help us  
separate all projects from affecting others.

## # dot env

.env

text file

to keep configurations

↳ API Keys

↳ Credentials

↳ DB username / Passwords.

Python - dotenv

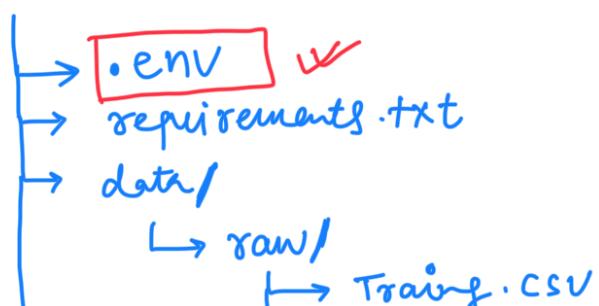
\* while committing to GitHub → avoid putting  
your secrets to the  
GitHub

## # requirements.txt

used to write packages (optionally with version)

## # Structure:

Project folder /



venv

• venv X

```
└── README.MD
    └── Procured/
        └── Testu.csv
    └── Src/
        └── __init__.Py
        └── Config.py
        └── data-loader.py
        └── Preprocessing.py      ✓
        └── model.py             ✓
        └── evaluation.py        ✓
        └── Prediction.py        ✓
        └── main.py
```