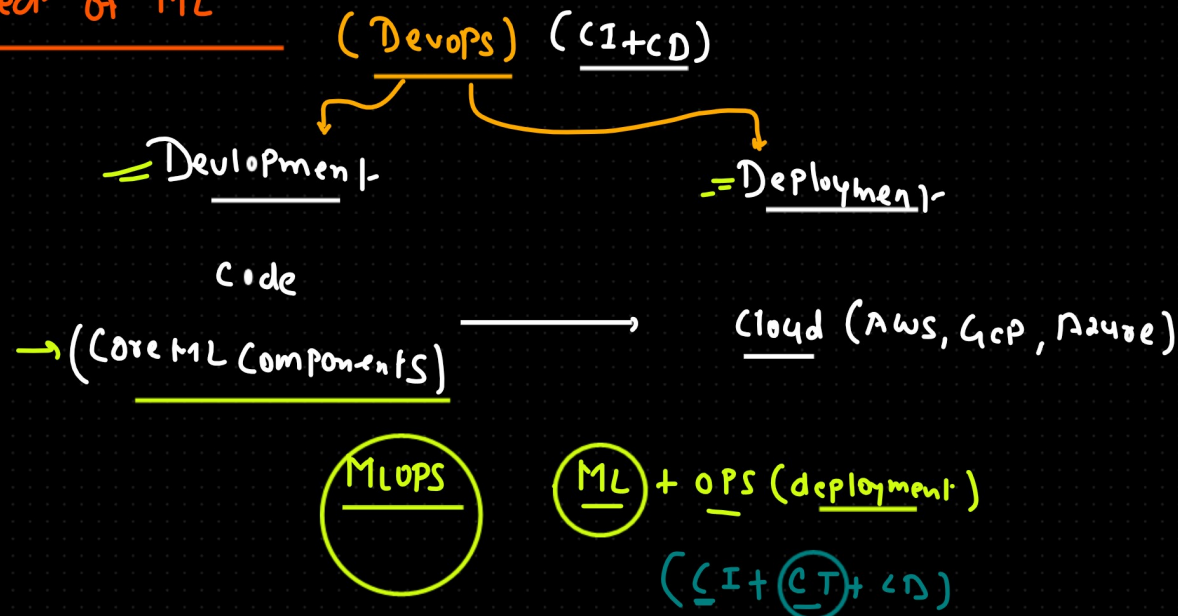


- ① Data ingestion (Data collection)
- ② EDA or analysis of the data
- ③ FE (Preprocessing or transformation)
- ④ Model building
- ⑤ Model evaluation



End to End Project of ML



Data Engineering

Database → Python → .CSV

Python

Flask

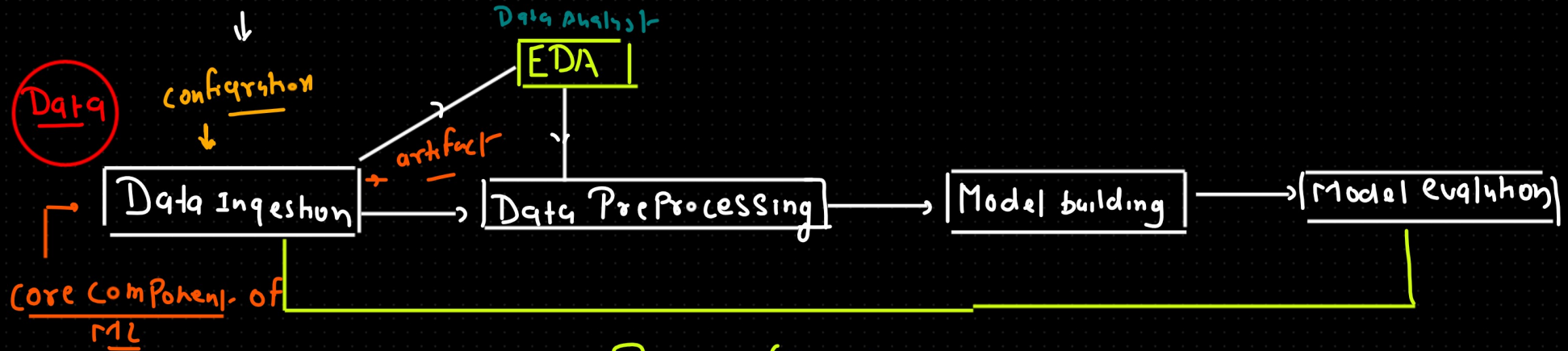
Exception

Logging

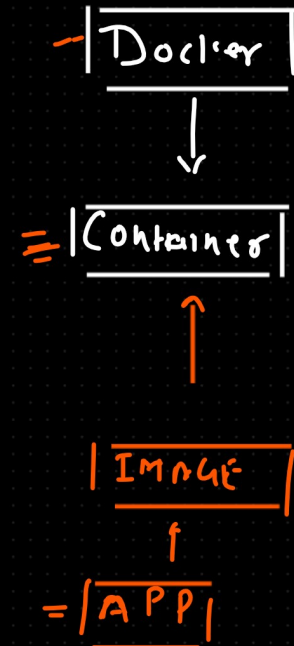
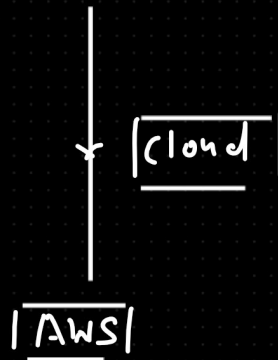
mongoDB

Configuration

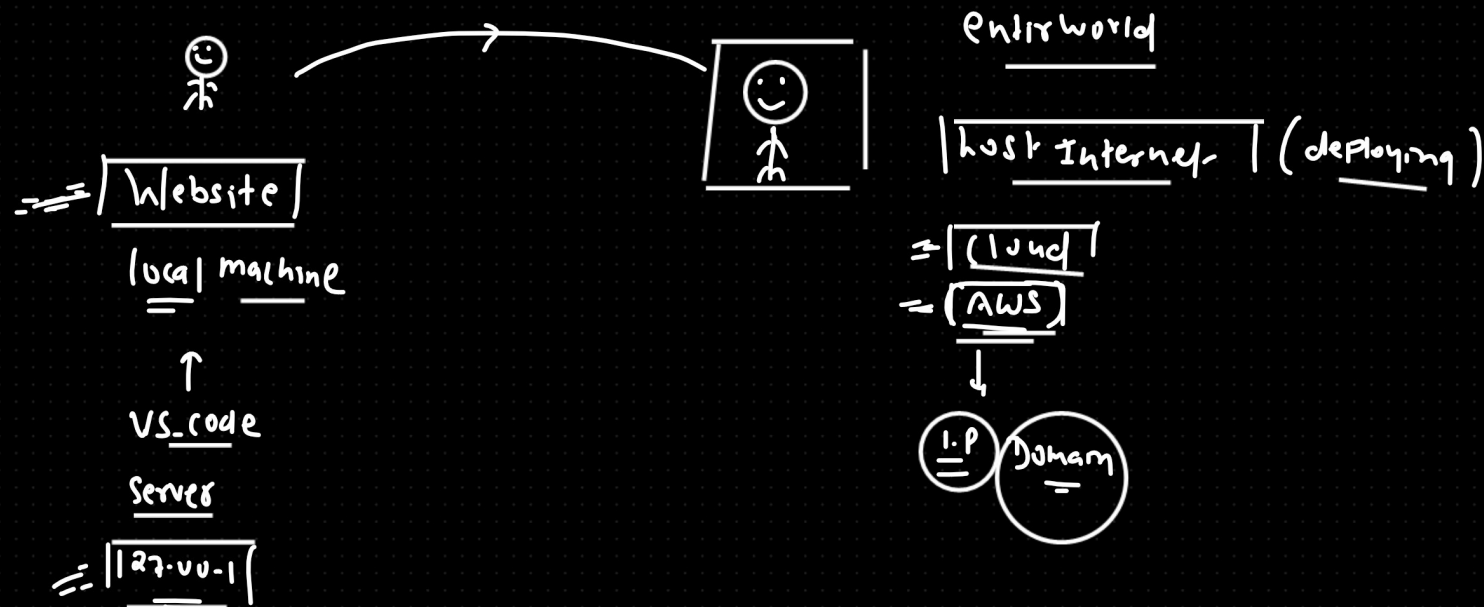
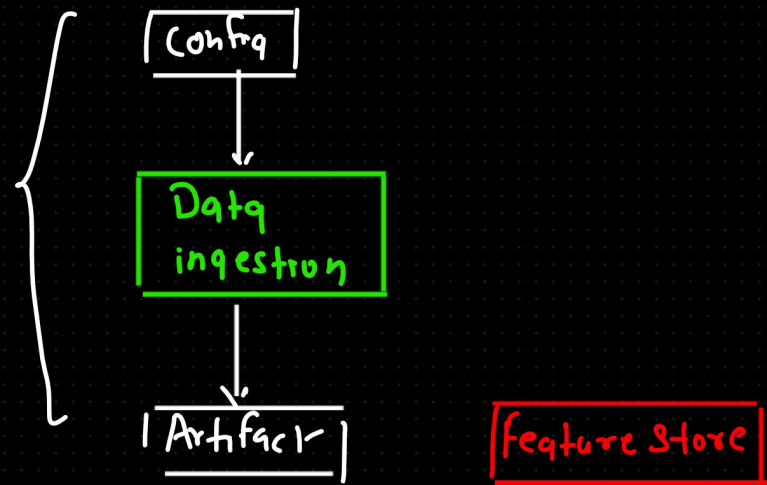
Artifact



Package (Pypi, conda manager)



Package → Folder → modules (Python file) .py file



Problem statement

→

Wafer fault Detection

Domain expert - SME

-1 → wafer is faulty
+1 → wafer w/ fault

target (-1/+1)

Sensor1

Sensor2

Sensor3

- - - - -

Sensor500

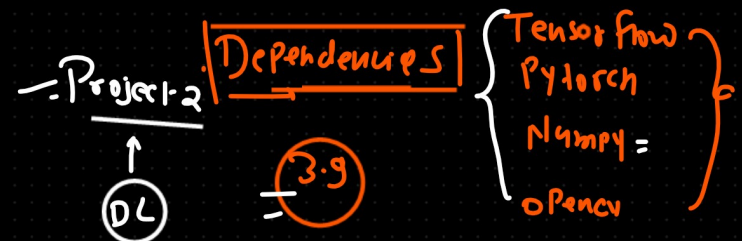
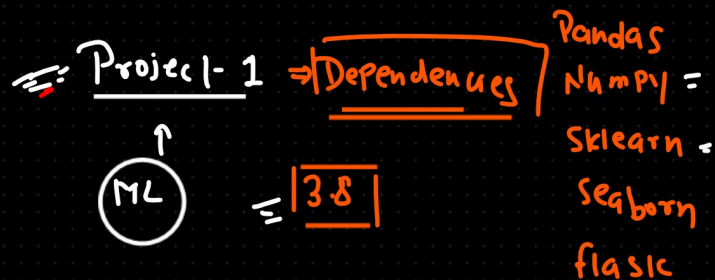
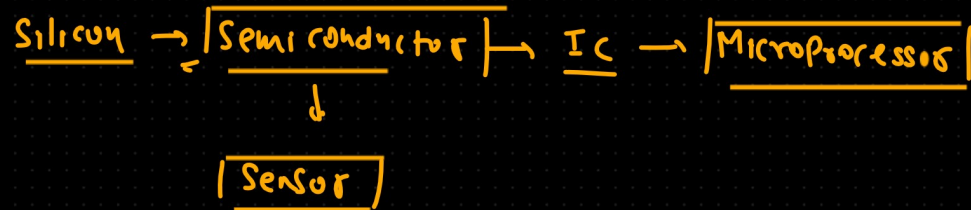
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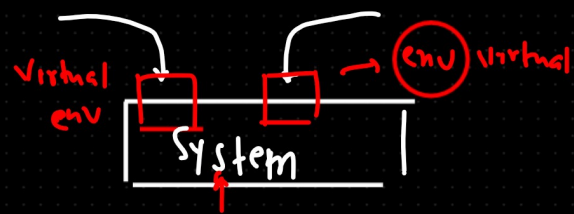
-
-
-

Regression

→ Classification

Binary classification





Python
interpreter

Data Science Project manager

↓
= conda

Package ⇒ folder → file → Python (module) =
(library) ⇒ modules

--init--py ← = Src folder
! → Components

→ Data_ingestion.py
→ Data_Pre_Process.py
→ Model_trainer.py

Package

PyPi repo
- Pandas, Numpy

Setup.py → findPackage()