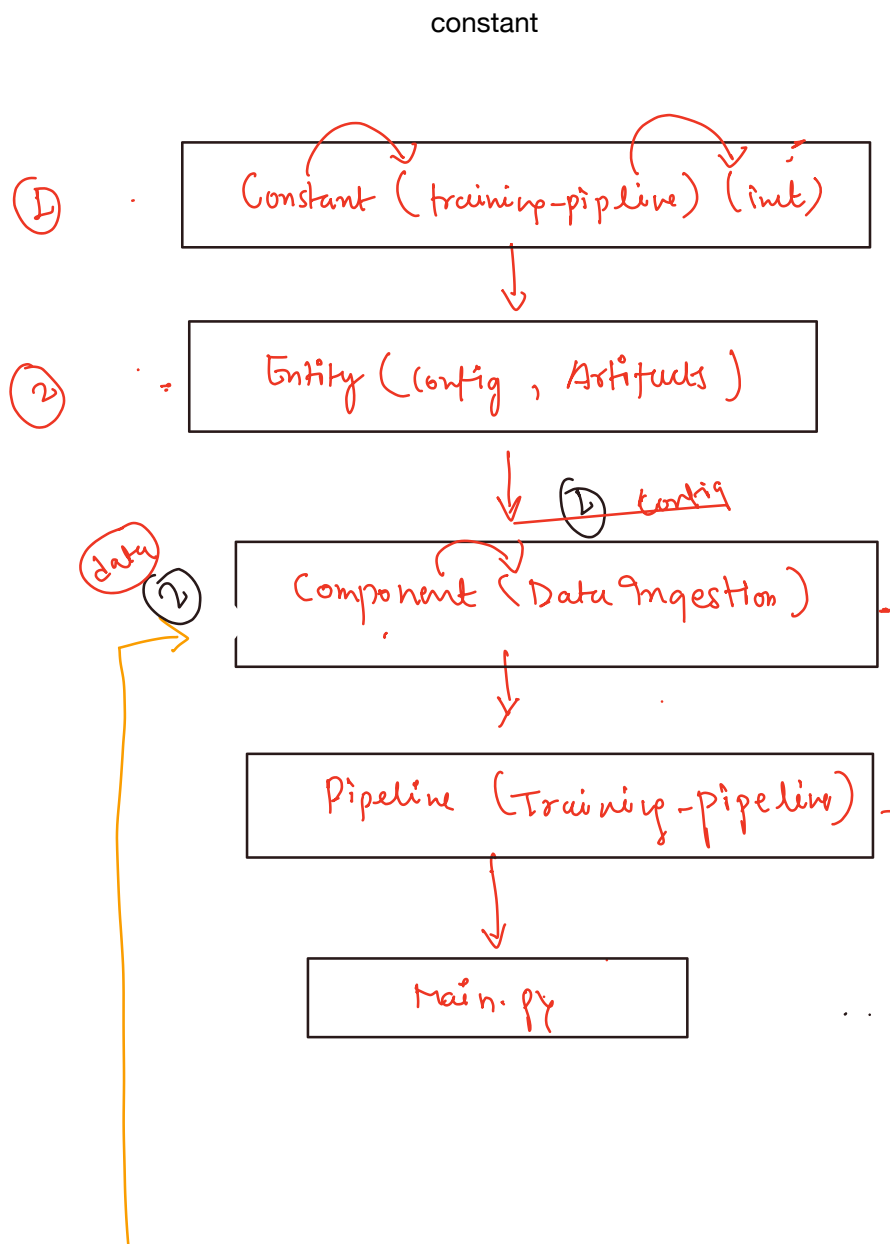
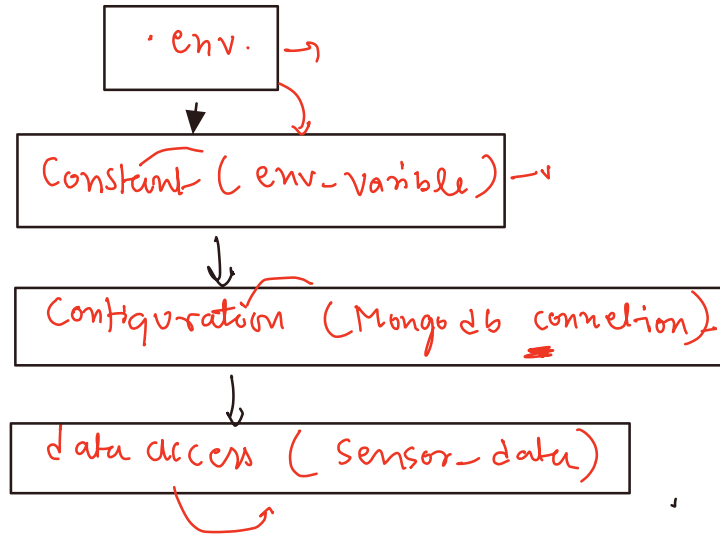


Data ingestion component

1. What is Architecture for the data ingestion component ?
2. what are the files and folder we need for this component ?
3. How these files are connected to each other , what is the sequence of creating those files
4. What is purpose of creating that component , what we are doing in this component



↳ MongoDB →



Description :- 1) init file \rightarrow Contain Constant Value related to Data Ingestion, Filename.

(2) Config → We create path → Training pipeline
→ Data ingestion config.

(3) - Data Ingestion →

- 1) Use Ingestion Configuration ✓
- 2) export data to feature folder
- 3) ingestion folder, train, test split

Config -
↓
→ [Data In]

mongo

```

graph TD
    Config[Config -] --> Data[Mongo]
    
```

(4) connect all above function.

- (4) Training pipeline :-
- 1) Take Config for training
 - 2) Connecting things → Data Config -
Training Config
initial data ingestion
 - (3) - Run pipeline

(6) Main.py → Run file by calling Run Training.

Mongodb file Description -

- 1) .env → Storing var.
- 2) env-variable → Storing var in variable.
- 3) Mongo-db-Connection :-
 - 1) load → var
 - 2) Read → var
 - 3) Client, Database collection.
- (4) Sensor-data →
 - 1) → Send data to Mongo
 - 2) Extract data from Mongo db.

Purpose: → Make input for usable for the Next component.

- Mongodb → → 1) collect data →
↓ 2) File, folder → store
Confid → 3) Split - Test, Train.
→ 4) Record data.
5) Sequential Arrangement.

⊛ Input → Data → Config.

Output → Artifact → (that Used by Next component)

⊛

