Modular Coding

1. Data Ingestion
2. Data Validation
3. Data Transformation
4. Model Trainer
5. Model Evaluation
6. Model pusher

**Data Ingestion**

**Workflow**

1. Us-visa 🡪 constants 🡪 copy the code

For all the components you need to assigned in the constant folder , so that instead of changing it in each file , we can change it from the single file

File contain important variables

1. In us-visa 🡪 configuration 🡪 create a mongo db connection.py file

All the folder and file path should be managed in the config

1. Us visa 🡪 create folder data\_access 🡪 create \_\_init\_\_.py and usvisa\_data.py 🡪
2. Us visa 🡪 entity🡪 config entity🡪
3. Us visa 🡪 entity 🡪 artifact (return type of the component . Here : data ingestion)🡪

Output from the components

Here train.py and test.py

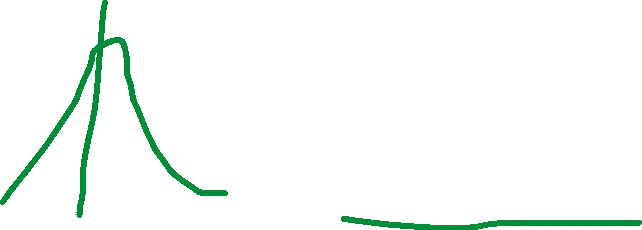
1. Us visa 🡪 Data ingestion.py 🡪
2. Training\_pipeline
3. Before that set the MONGODB\_URL in env variable or set MONGODB\_URL=”-------------"
4. End point

**Data Drift**

Data drift, also known as concept drift or dataset shift, refers to the gradual or abrupt change in the statistical properties of the data used to train a machine learning model. These statistical properties can include changes in the distribution of features, target labels, or the relationships between them.



No drift occurs



Drift occurs