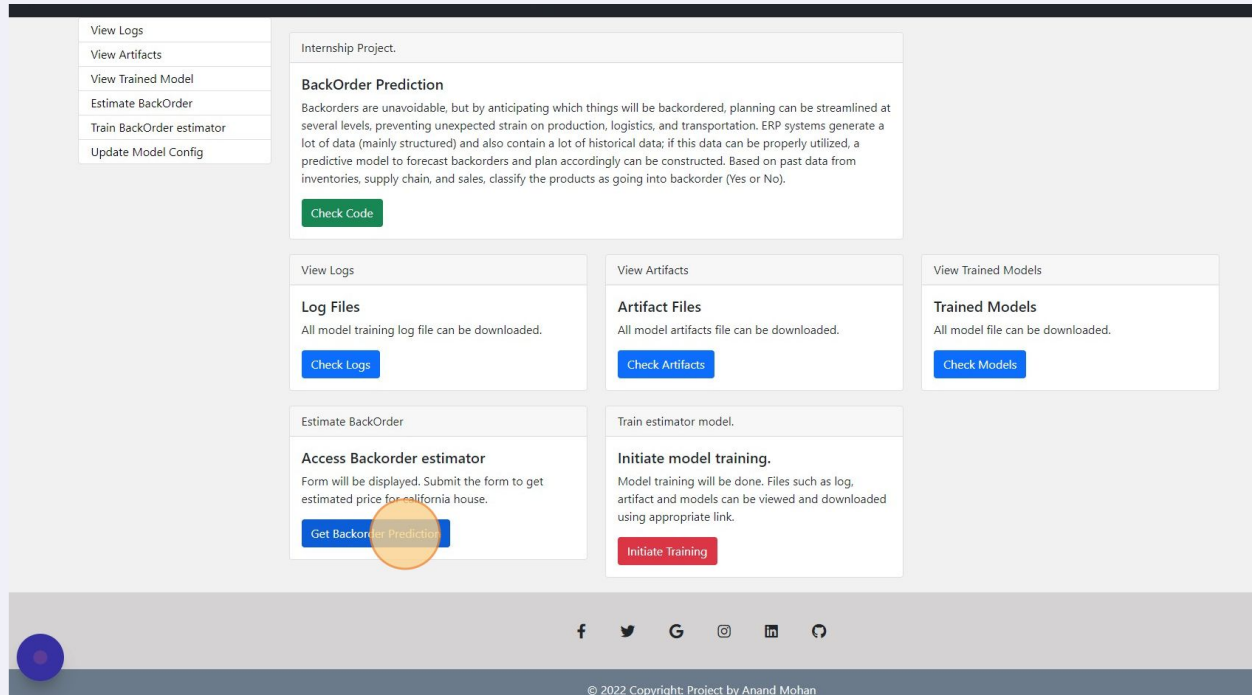


Backorder prediction

Wireframe Documentation

- 1 To make Predictions click on the "Get Backorder Prediction" button



2 Enter All the Values

Home View Logs View Artifacts View Trained Model Estimate BackOrder Experiment History

s
facts
ned Model
BackOrder
kOrder estimator
Model Config

BackOrder Estimation Form

National_Inv
Enter a value of National_Inv

Lead_time
Enter a value of Lead_time

In_Transit_Qty
Enter a value of In_Transit_Qty

Forecast_3_Month
Enter a value of Forecast_3_Month

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3 After filling all parameter Click on Predict button

PPAP_Risk
<No

Stop_Auto_Buy
Yes

Rev_Stop
<No

Predict

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4

On the Right side all feature values will be displayed along with the prediction as Yes or No at the Bottom row

Forecast_3_Month	forecast_9_month	0.0
Enter a value of Forecast_3_Month	sales_1_month	0.0
Forecast_6_Month	sales_3_month	0.0
Enter a value of Forecast_6_Month	sales_6_month	0.0
Forecast_9_Month	sales_9_month	0.0
Enter a value of Forecast_9_Month	min_bank	0.0
Sales_1_Month	pieces_past_due	0.0
Enter a value of Sales_1_Month	perf_6_month_avg	0.92
Sales_3_Month	perf_12_month_avg	0.95
Enter a value of Sales_3_Month	local_bo_qty	0.0
Sales_6_Month	potential_issue	No
Enter a value of Sales_6_Month	deck_risk	No
Sales_9_Month	oe_constraint	No
Enter a value of Sales_9_Month	ppap_risk	No
Min_Bank	stop_auto_buy	Yes
Enter a value of Min_Bank	rev_stop	No
Pieces_past_due	Went on Backorder	No
Enter a value of Pieces_past_due	Prediction	
Perf_6_Month_Avg	Go to	Home
Enter a value of Perf_6_Month_Avg		
Perf_12_Month_Avg		
Enter a value of Perf_12_Month_Avg		

5

To Add New algorithms in the training Click "Update Model Config"

BackOrder Prediction
Home
View Logs
View Artifacts
View Trained Model
Estimate BackOrder
Experiment History

View Logs
View Artifacts
View Trained Model
Estimate BackOrder
Train BackOrder estimator
Update Model Config

Internship Project.

BackOrder Prediction

Backorders are unavoidable, but by anticipating which things will be backordered, planning can be streamlined at several levels, preventing unexpected strain on production, logistics, and transportation. ERP systems generate a lot of data (mainly structured) and also contain a lot of historical data; if this data can be properly utilized, a predictive model to forecast backorders and plan accordingly can be constructed. Based on past data from inventories, supply chain, and sales, classify the products as going into backorder (Yes or No).

[Check Code](#)

View Logs

Log Files

All model training log file can be downloaded.

[Check Logs](#)

View Artifacts

Artifact Files

All model artifacts file can be downloaded.

[Check Artifacts](#)

View Trained

Trained Model

All model file

[Check Model](#)

Estimate BackOrder

Access Backorder estimator

Form will be displayed. Submit the form to get estimated price for california house.

[Access Backorder estimator](#)

Train estimator model.

Initiate model training.

Model training will be done. Files such as log, artifact and models can be viewed and downloaded using appropriate link.

6 Click "Update model config" to add a new algorithm to the training

VIEW ARTIFACTS
View Trained Model
Estimate BackOrder
Train BackOrder estimator
Update Model Config

Existing model config

```
{'grid_search': {'class': 'GridSearchCV', 'module': 'sklearn.model_selection', 'params': {'cv': 5, 'verbose': 2}}, 'dataset_balancing': {'module': 'imblearn.under_sampling', 'params': {'random_state': 50}}, 'model_selection': {'module_0': {'class': 'DecisionTreeClassifier', 'module': 'sklearn.tree', 'params': {'max_depth': 10}}, 'search_param_grid': {'max_depth': [9, 5], 'min_samples_split': [2, 5], 'min_samples_leaf': [1, 4], 'max_features': ['sqrt', 'log2', 'best'], 'class_weight': ['balanced']}}}}
```

Validate model config json
Update model config

Model Config JSON:

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7 To View all the Existing Trained Models Click "Check Models"

Decision, register, and transportation. LLM systems generate a lot of historical data; if this data can be properly utilized, a model accordingly can be constructed. Based on past data from products as going into backorder (Yes or No).

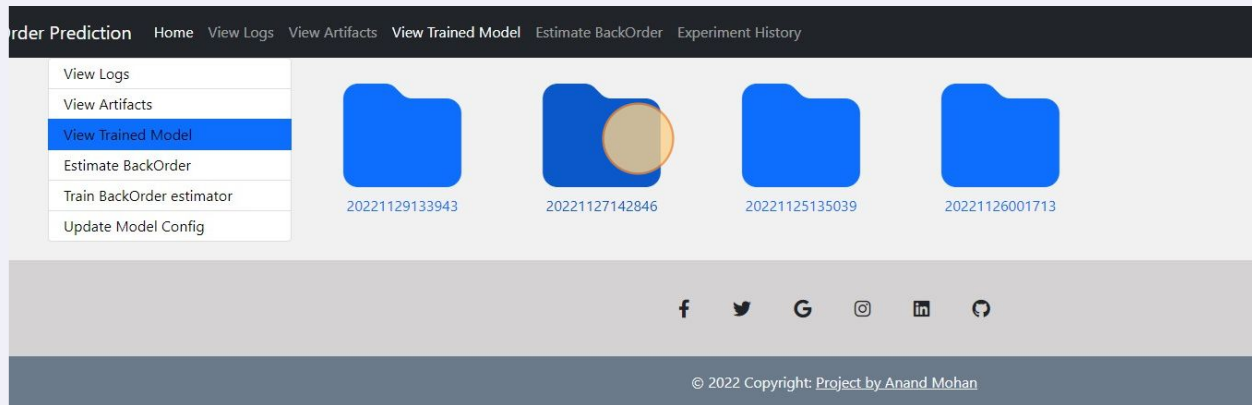
View Artifacts
Artifact Files
All model artifacts file can be downloaded.
Check Artifacts

View Trained Models
Trained Models
All model file can be downloaded.
Check Models

Train estimator model.
Initiate model training.
Model training will be done. Files such as log, artifact and models can be viewed and downloaded using appropriate link.
Initiate Training

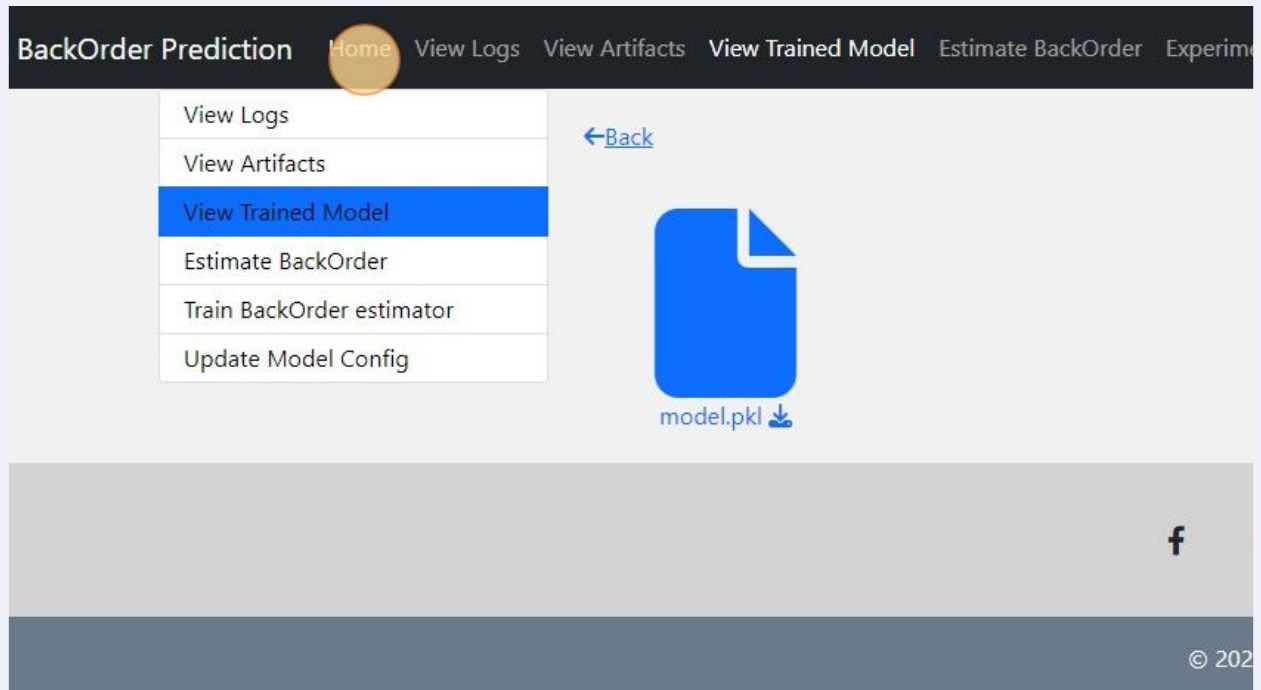
8

Click on any of the model folder you want to view



9

it will display the model which is saved in the folder



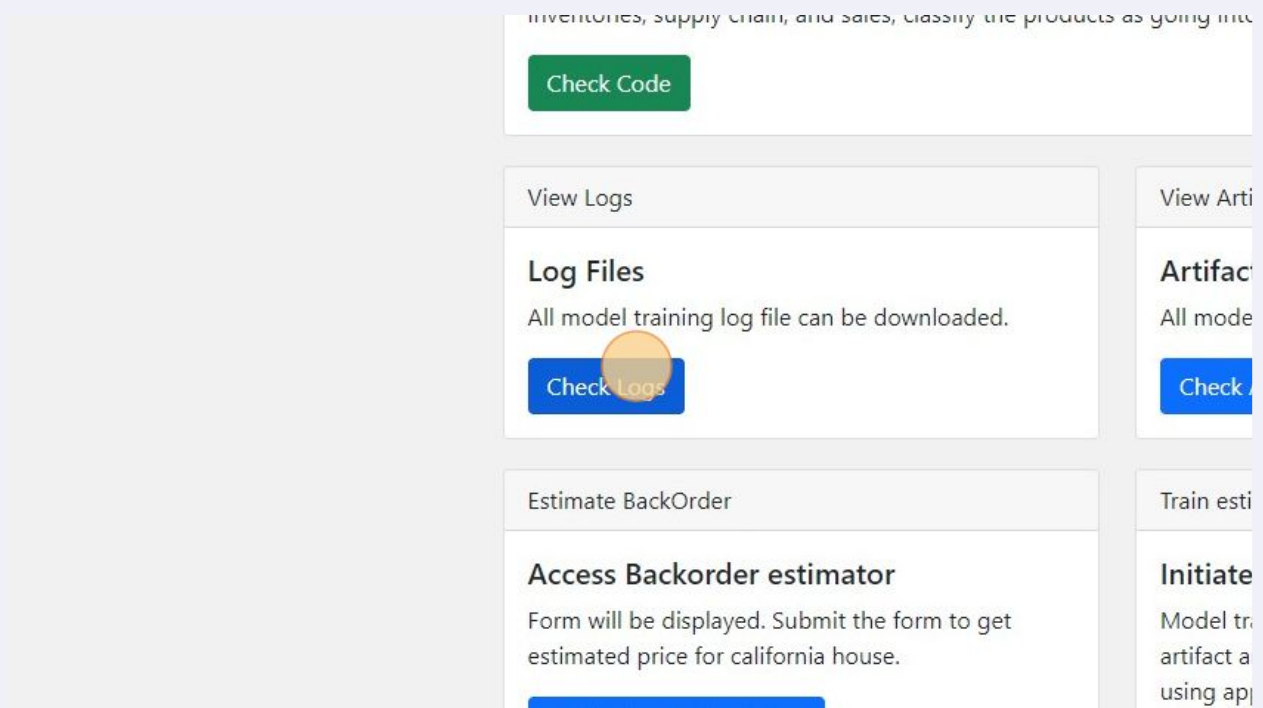
10 To Start Training Click "Initiate Training"

The screenshot shows a web application interface for training a BackOrder estimator model. At the top, there are three tabs: "Logs", "Check Artifacts", and "Check". Below the "Logs" tab, the text "BackOrder" is visible. The main content area is divided into two panels. The left panel, titled "Backorder estimator", contains the text "be displayed. Submit the form to get price for california house." and a blue button labeled "Backorder Prediction". The right panel, titled "Train estimator model.", contains the text "Initiate model training." and "Model training will be done. Files such as log, artifact and models can be viewed and downloaded using appropriate link." Below this text is a red button labeled "Initiate Training", which is highlighted with a yellow circle. At the bottom of the interface, there is a row of social media icons (Facebook, Twitter, Google+, Instagram, LinkedIn, and GitHub) and a footer that reads "© 2022 Copyright: Project by Anand Mohan".

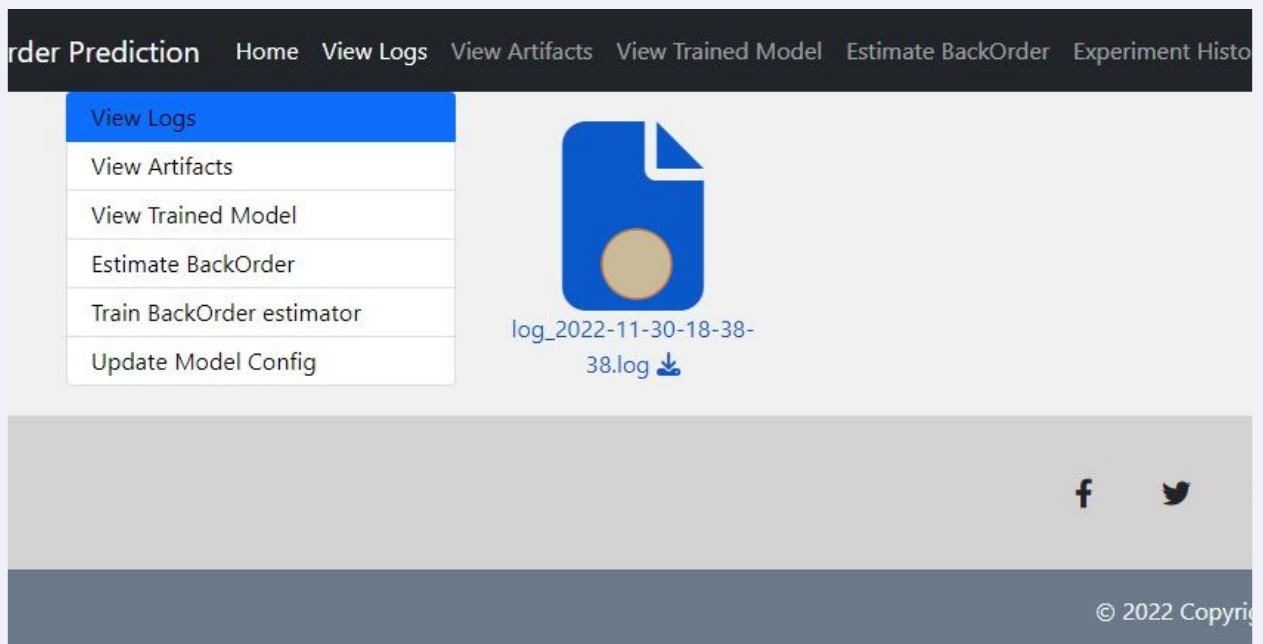
11 Training will start automatically

The screenshot shows the same web application interface as in the previous step, but with the "Train BackOrder estimator" option selected in the left sidebar. The "Train BackOrder estimator" option is highlighted with a blue bar. In the main content area, a blue notification box appears with the text "Training started." and a "Go to Home" button, which is highlighted with a yellow circle. The rest of the interface remains the same as in the previous step.

12 To View Log file Click "Check Logs"



13 it will show the current log file



14

if training is currently going on the log file will display all the logs up to the current time when the log file was opened

BackOrder Prediction Home View Logs View Artifacts View Trained Model Estimate BackOrder Experiment History

- View Logs
- View Artifacts
- View Trained Model
- Estimate BackOrder
- Train BackOrder estimator
- Update Model Config

Go to [Home](#)

```
[2022-11-30 18:50:15,899] :$ Data Ingestion Config:
DataIngestionConfig(dataset_download_url='https://raw.githubusercontent.com/
tgz_download_dir='/app/application/storage/data_ingestion/2022-11-30-18-38-38/raw_data', ingested_train_dir='/app/application/storage/data_ingestion/2022-11-30-18-38-38/ingested_train_data', ingested_test_dir='/app/application/storage/data_ingestion/2022-11-30-18-38-38/ingested_test_data', test_file_name='Kaggle_Test_Dataset_v2.csv')\n
[2022-11-30 18:50:15,899] :$ \n
NaN
[2022-11-30 18:50:15,899] :$ Downloading File from: [ https://raw.githubusercontent.com/
/app/application/storage/data_ingestion/2022-11-30-18-38-38/tgx_data
[2022-11-30 18:50:16,515] :$ File: [ /app/application/storage/data_ingestion/2022-11-30-18-38-38/tgx_data
[2022-11-30 18:50:16,515] :$ Extracting: [ /app/application/storage/data_ingestion/2022-11-30-18-38-38/tgx_data
/app/application/storage/data_ingestion/2022-11-30-18-38-38/raw_data
[2022-11-30 18:50:16,540] :$ \n
```

15

To view all the Artifacts Click "View Artifacts"

BackOrder Prediction Home View Logs View Artifacts View Trained Model Estimate BackOrder Experiment History

- View Logs
- View Artifacts
- View Trained Model
- Estimate BackOrder
- Train BackOrder estimator
- Update Model Config

Internship Project.

BackOrder Prediction

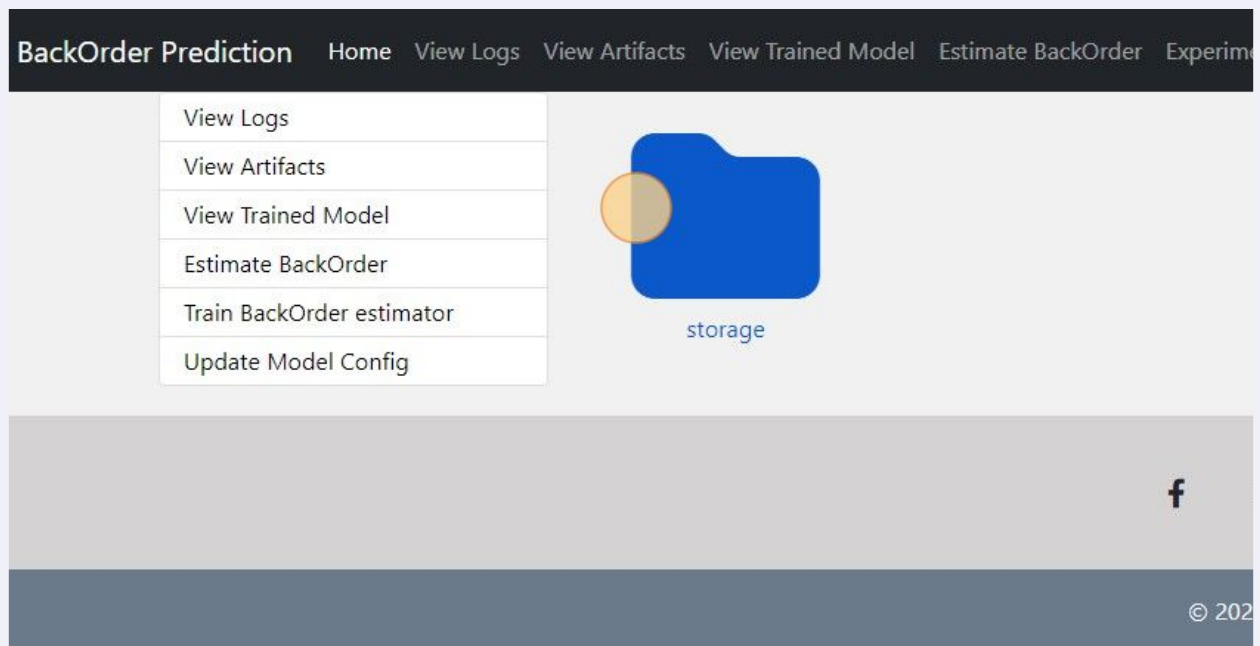
Backorders are unavoidable, but by anticipating which things v
several levels, preventing unexpected strain on production, log
lot of data (mainly structured) and also contain a lot of historic
predictive model to forecast backorders and plan accordingly c
inventories, supply chain, and sales, classify the products as go

[Check Code](#)

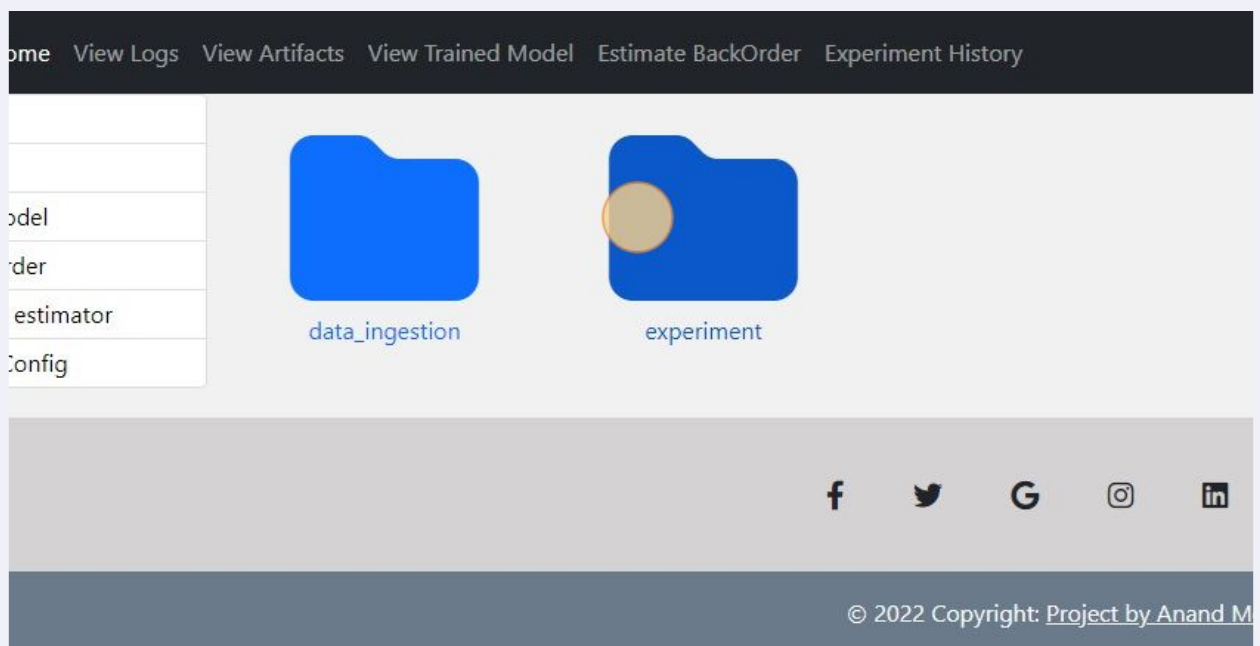
View Logs

Log Files

16 it will open the Artifact folder which has a storage folder

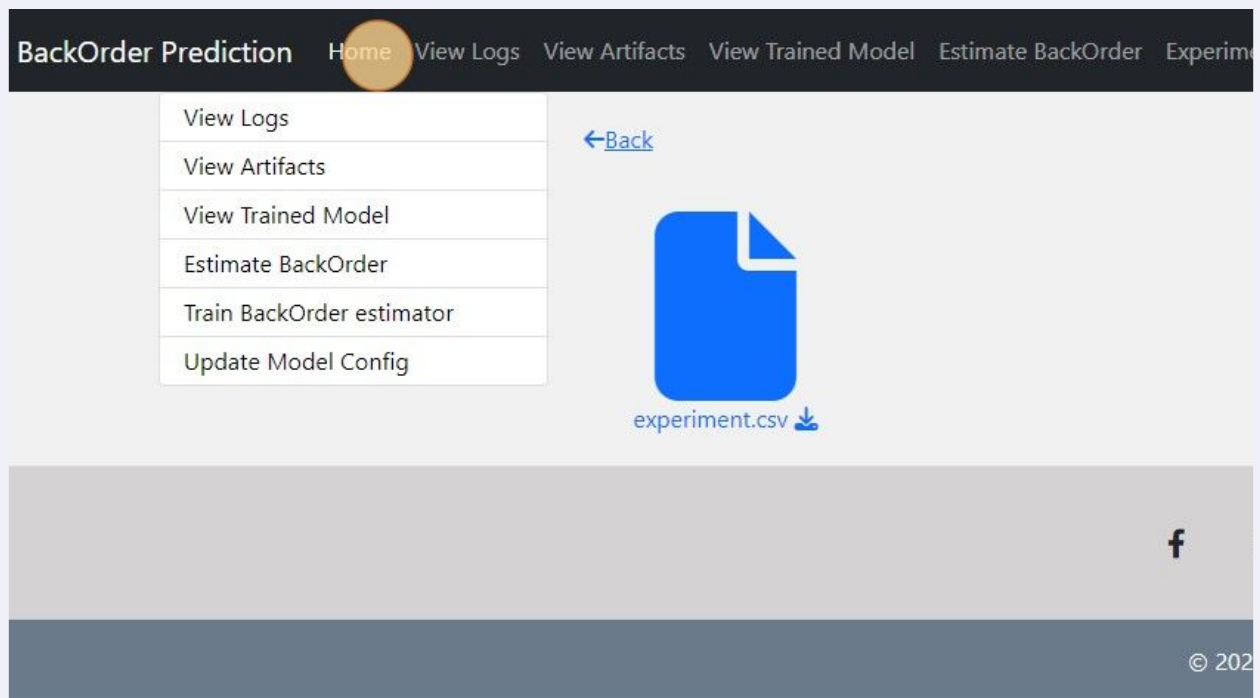


17 if we open the storage folder it will have folder depending on which stage the training is currently on



18

if we try to open any of those folder it will have details related to that stage of training



19

To get redirected to Github Click "Check Code"

