

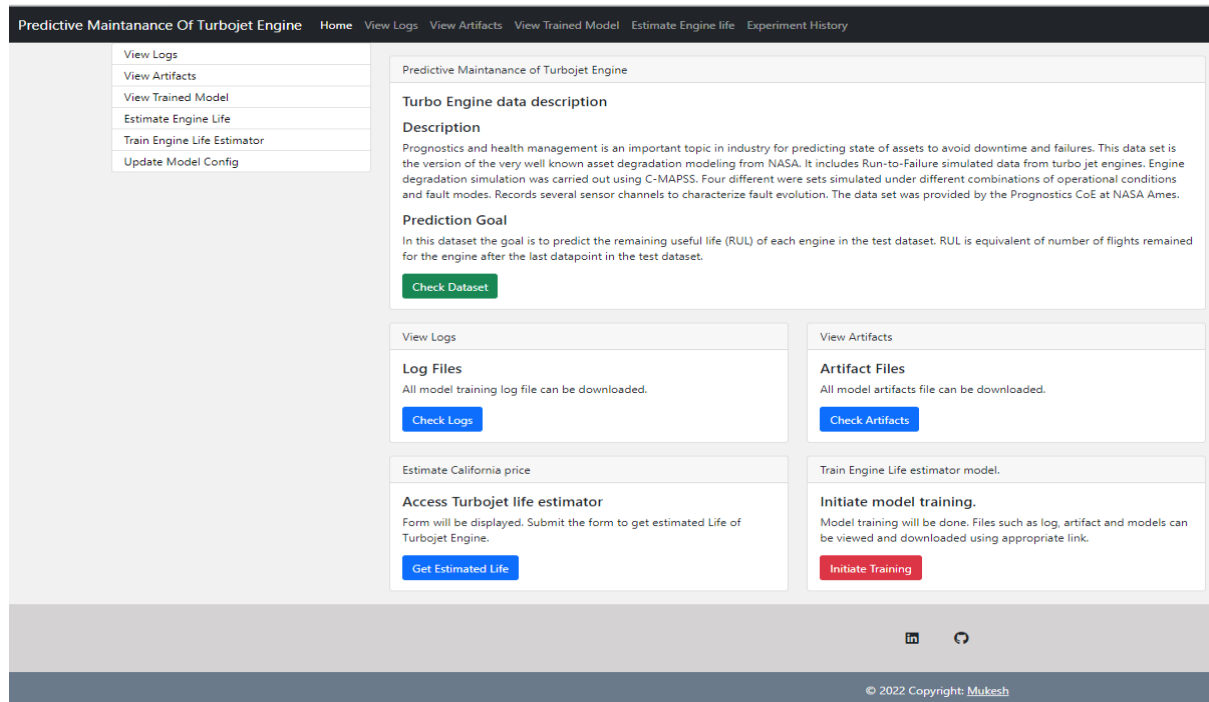
Predictive Maintenance of TurboJet Engine

Wireframe Documentation

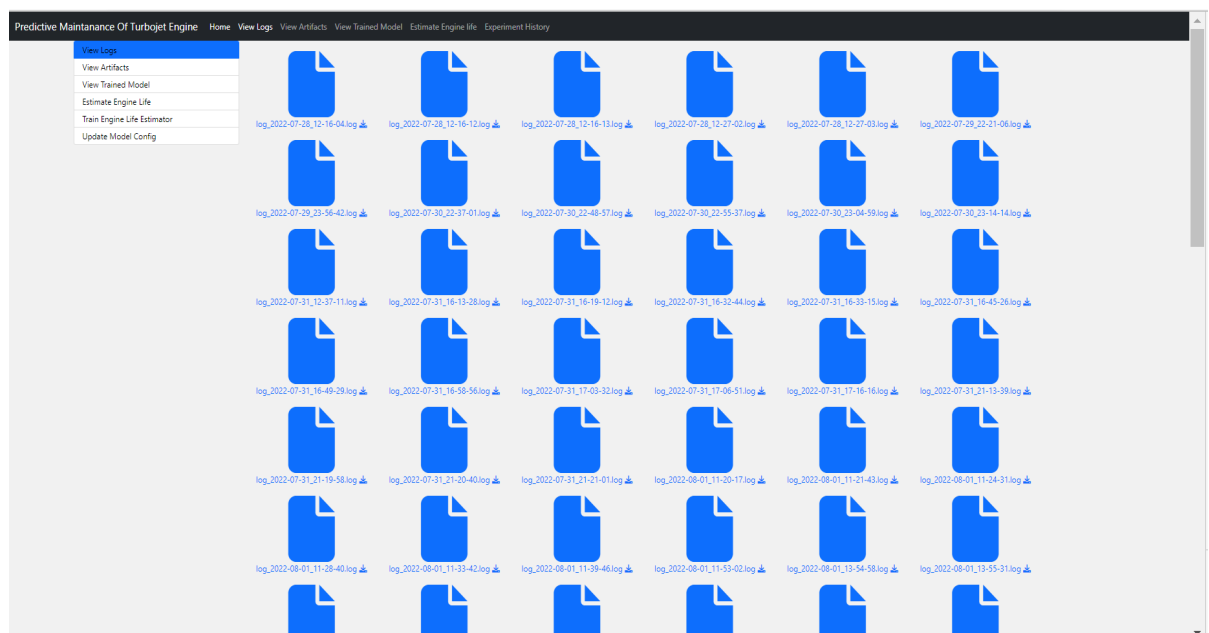
Homepage

I have divided the Predictive Maintenance of TurboJet Engine Homepage into Multiple Sections: -

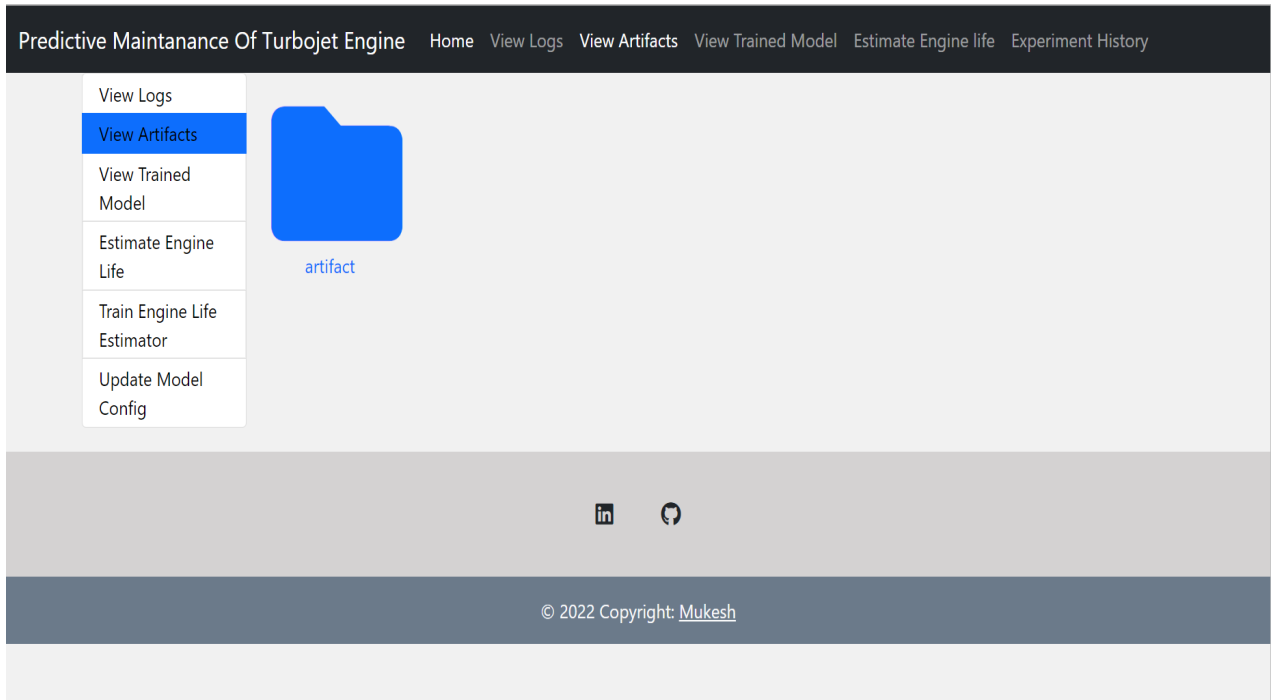
1. The first thing anyone will see is a pop-up window on the Homepage which will have a Description of Data and all the project directory pipelines.



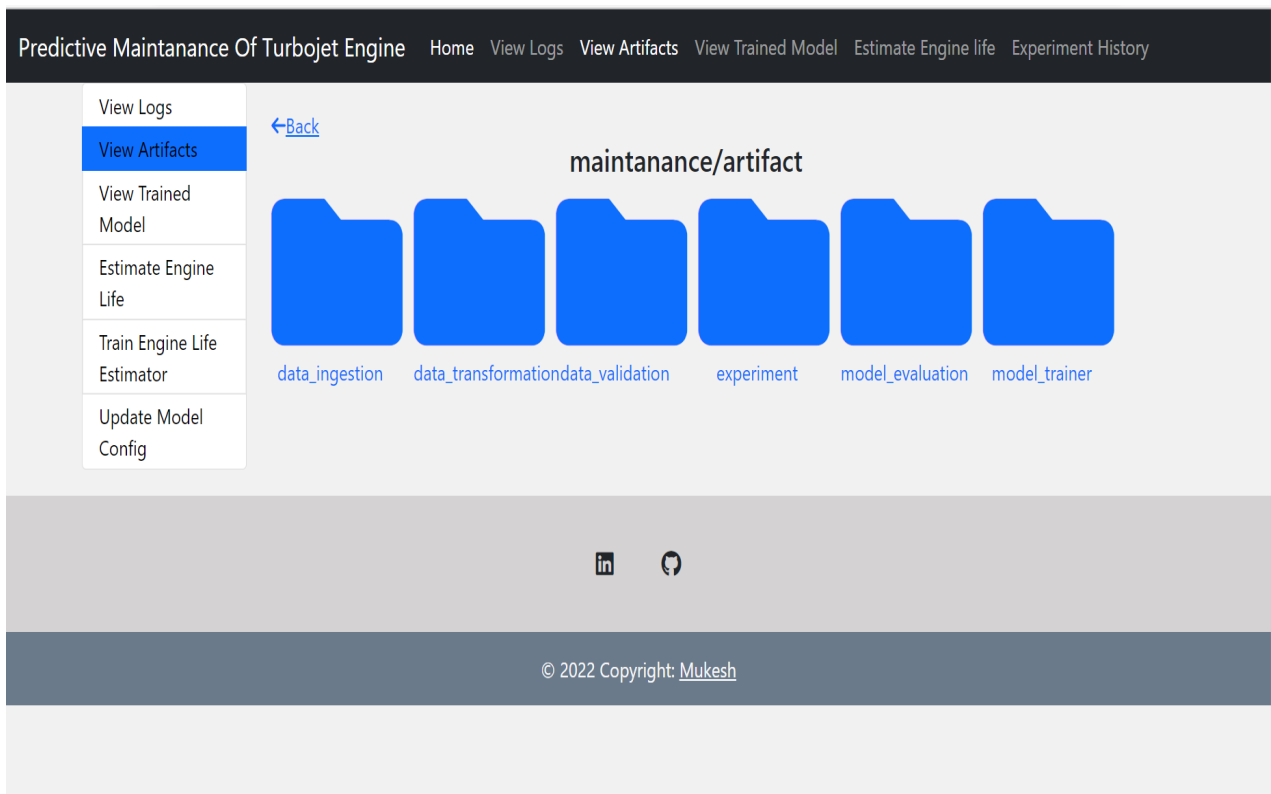
2. The User can access the view log to see the logging of the hole project.



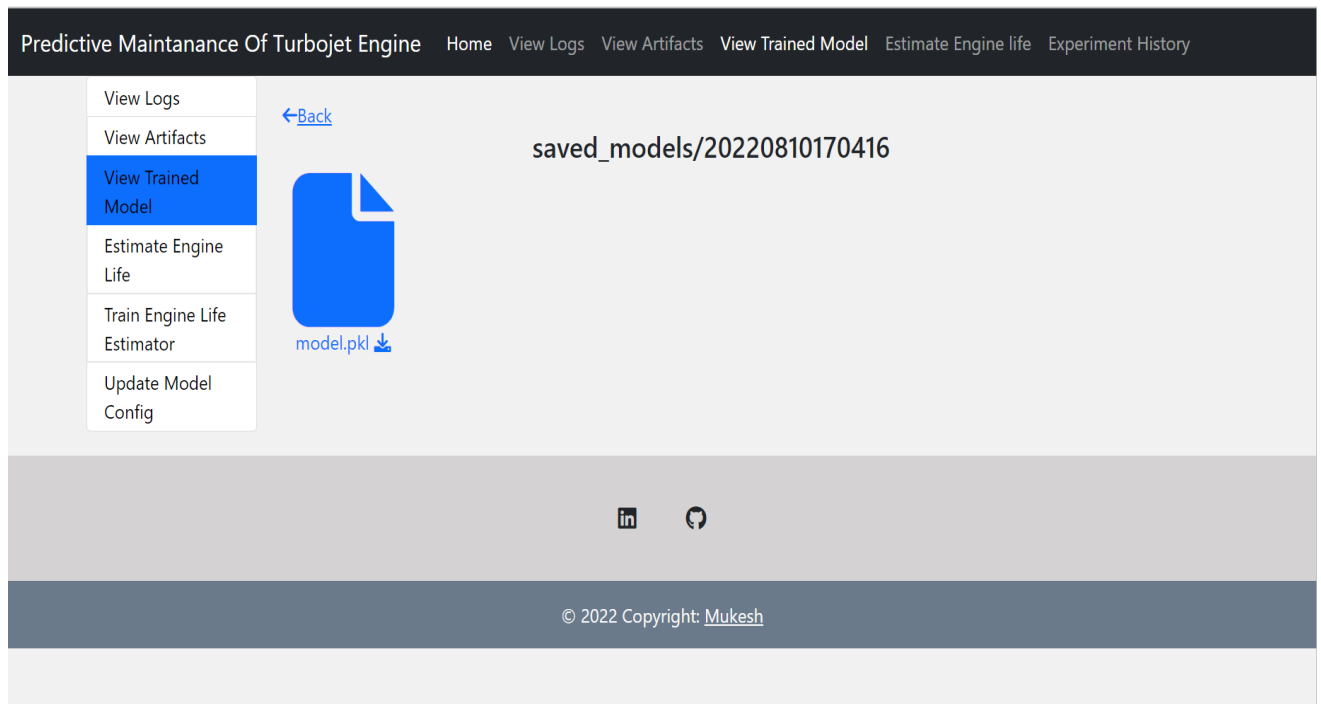
3. The User can access the view Artifacts to see the Folders of ML Flow of the hole project.



Inside the Artifcat it will show all the artifacts of ML Pipeline



4. The User can access the view Trained Model to see the Best Model With respect to time a stamps ML Flow of the hole project.



5. The User can access the Estimate Engine Life to see the Remaining Useful Life of the Engine .

The screenshot shows the 'Estimate Engine Life' page of the 'Predictive Maintenance Of Turbojet Engine' application. The navigation bar at the top includes 'Home', 'View Logs', 'View Artifacts', 'View Trained Model', 'Estimate Engine life' (which is highlighted), and 'Experiment History'. On the left, a sidebar menu lists 'View Logs', 'View Artifacts', 'View Trained Model', 'Estimate Engine Life' (highlighted), 'Train Engine Life Estimator', and 'Update Model Config'. The main content area is titled 'Turbojet Engine life Estimation Form'. It contains several input fields for data entry: 'Cycle', 'OpSet1', 'OpSet2', 'OpSet3', 'SensorMeasure1', 'SensorMeasure2', 'SensorMeasure3', and 'SensorMeasure4'. Each field has a placeholder text 'Enter a value of [field name]'. On the right side of the form, there is a 'Submit Form' button and a 'Go to Home' button. A message box on the right says 'Predictive Maintenance Of Turbojet Engine' and 'Submit Form' with the text 'Kindly provide necessary information to estimate Life of the Turobojet Engine'.

6. The User can access the Train Estiamte Engine Life to Monitor the Performance of the models in the Experiment.

Predictive Maintenance Of Turbojet Engine Home View Logs View Artifacts View Trained Model Estimate Engine life Experiment History

View Logs
View Artifacts
View Trained Model
Estimate Engine Life
Train Engine Life Estimator
Update Model Config

Go to [Home](#)

Training started.

	experimen t_id	artifact ti me_stamp	running st atus	start_time	stop_time	execution_ time	message	accuracy	is_model_a ccepted	created ti me_stamp
22	3242045f-5d24-403b-99fd-b8bcd5e2c151	2022-08-13-17-07-11	False	2022-08-13 17:07:11.554648	2022-08-13 17:21:34.585734	0 days 00:14:23.031086	Pipeline has been completed.	1.0	True	2022-08-13 17:21:34.586736
23	a4373994-5b45-41bf-9fd1-0e1a055b52c	2022-08-18-11-29-29	True	2022-08-18 11:29:29.101732	NaN	NaN	Pipeline has been started.	NaN	NaN	2022-08-18 11:29:29.102729
24	a4373994-5b45-41bf-9fd1-0e1a055b52c	2022-08-18-11-29-29	False	2022-08-18 11:29:29.101732	2022-08-18 11:42:29.777461	0 days 00:13:00.675729	Pipeline has been completed.	1.0	True	2022-08-18 11:42:29.777461
25	bda9a301-bfb9-425f-85d7-92774c39a4f0	2022-08-18-12-28-57	True	2022-08-18 12:28:57.194598	NaN	NaN	Pipeline has been started.	NaN	NaN	2022-08-18 12:28:57.210553

7. The User can access the Update Model Config is to retrain the model if its accuracy get reduce in future in the Experiment.

Predictive Maintenance Of Turbojet Engine Home View Logs View Artifacts View Trained Model Estimate Engine life Experiment History

View Logs
View Artifacts
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Update Model Config

Go to [Home](#)

Existing model config

```
{ 'grid_search': { 'class': 'GridSearchCV', 'module': 'sklearn.model_selection', 'params': { 'cv': 5, 'verbose': 2 } }, 'model_selection': { 'module_0': { 'class': 'GradientBoostingClassifier', 'module': 'sklearn.ensemble', 'params': { 'min_samples_leaf': 3 }, 'search_param_grid': { 'min_samples_leaf': [6] } }, 'module_1': { 'class': 'RandomForestClassifier', 'module': 'sklearn.ensemble', 'params': { 'min_samples_leaf': 3 }, 'search_param_grid': { 'min_samples_leaf': [6] } } }
```

[Validate model config json](#)

[Update model config](#)

Model Config JSON:

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Drift is detected for 0.00% of features (0 out of 27). Dataset Drift is NOT detected.

							Search	X
Feature	Type	Reference Distribution	Current Distribution	Data Drift	Stat Test	Drift Score		
> Cycle	num			Not Detected	Wasserstein distance (normed)	0.005307		
> OpSet2	num			Not Detected	Wasserstein distance (normed)	0.004958		
> Life_Ratio	num			Not Detected	Wasserstein distance (normed)	0.004953		
> SensorMeasure11	num			Not Detected	Wasserstein distance (normed)	0.004444		
> SensorMeasure4	num			Not Detected	Wasserstein distance (normed)	0.004272		
> SensorMeasure17	num			Not Detected	Wasserstein distance (normed)	0.004241		
> SensorMeasure14	num			Not Detected	Wasserstein distance (normed)	0.004182		
> SensorMeasure10	num			Not Detected	Wasserstein distance (normed)	0.00416		
> SensorMeasure5	num			Not Detected	Wasserstein distance (normed)	0.004154		
> SensorMeasure6	num			Not Detected	Wasserstein distance (normed)	0.00414		
							10 rows	1-10 of 27

8. Drift Monitoring for Dataset for Real Data and Training Data