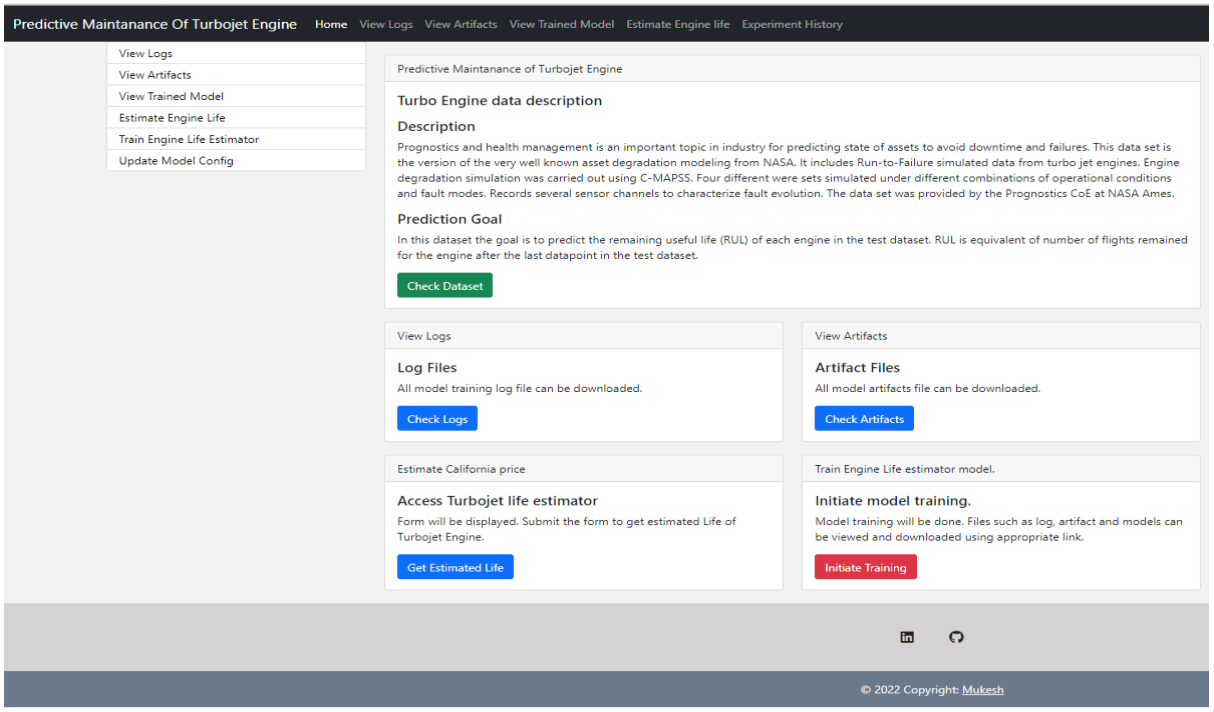
Predictive Maintenance of TurboJet Engine

Wireframe Documentation

Homepage

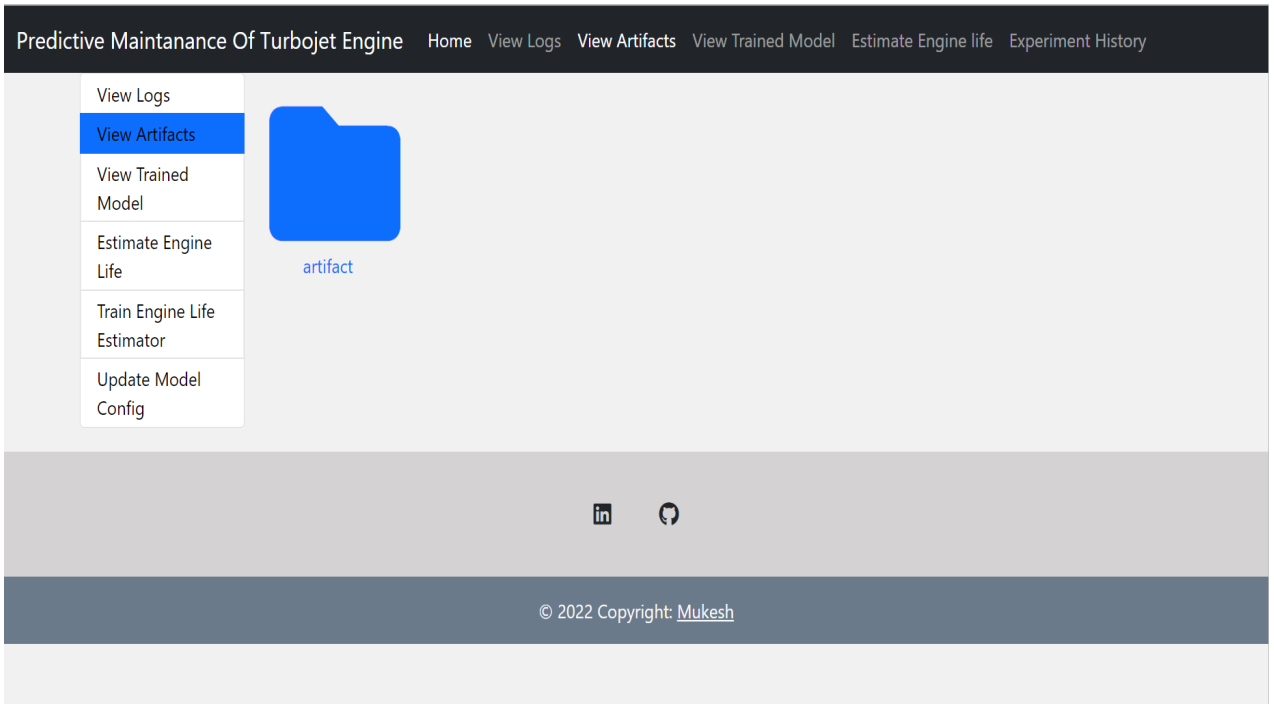
I have divided the Predictive Maintenance of TurboJet Engine Homepage into Multiple Sections: -

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.

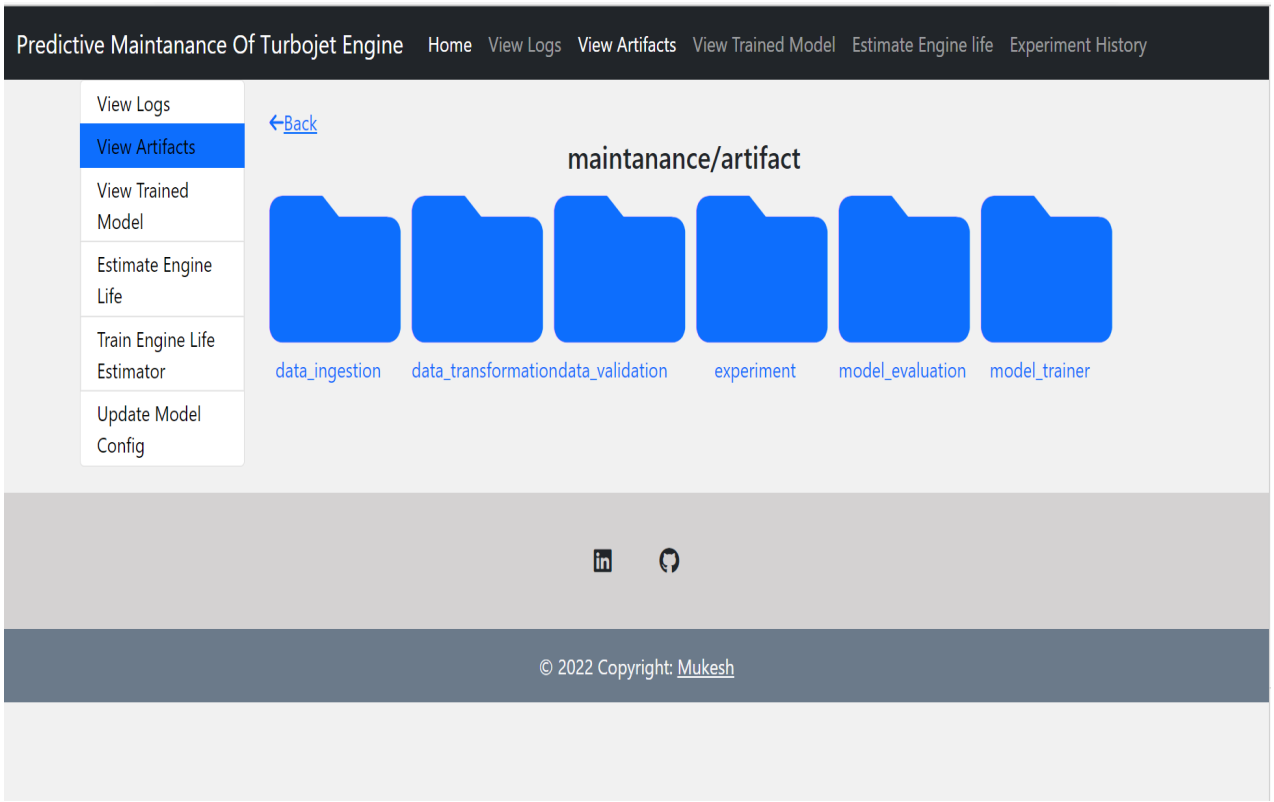


2. The User can access the view log to see the logging of the hole project.

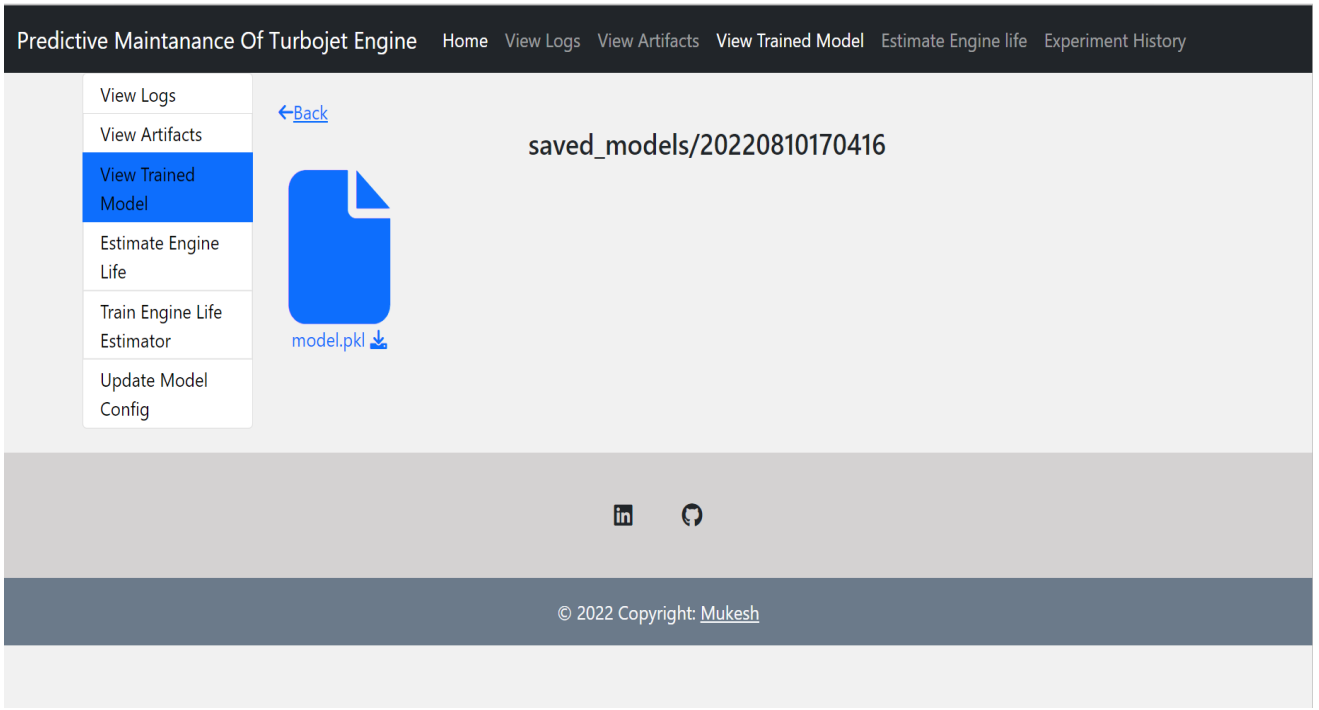
3. The User can access the view Artifacts to see the Folders of ML Flow of the hole project.



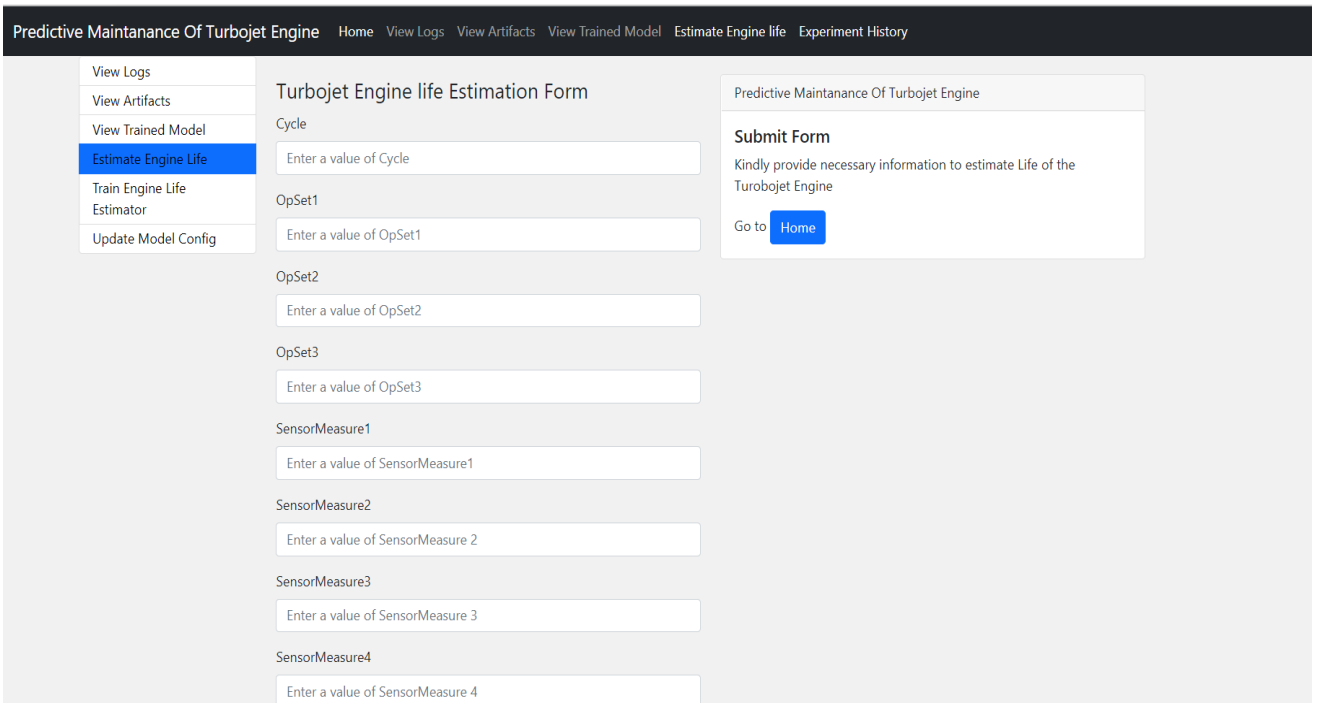
Inside the Artifcat it will show all the artifacts of ML Pipeline



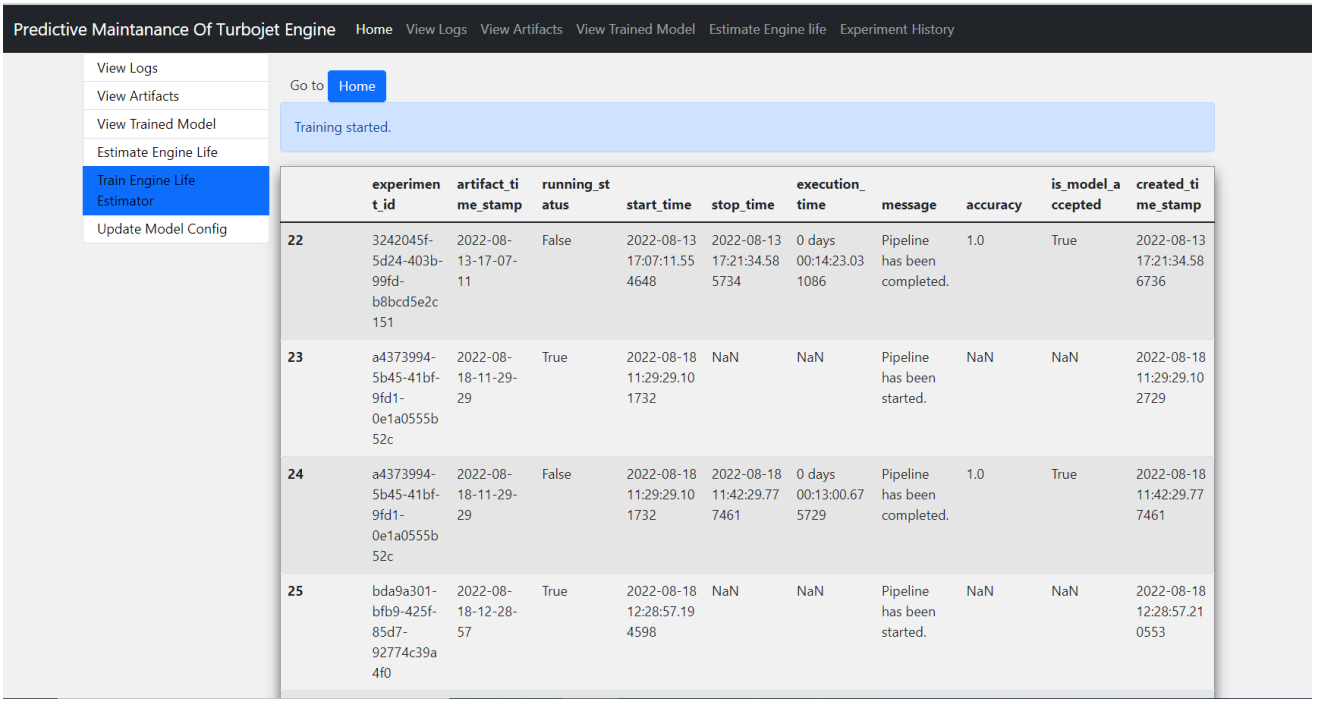
4. The User can access the view Trained Model to see the Best Model With respect to time a stamps ML Flow of the hole project.



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

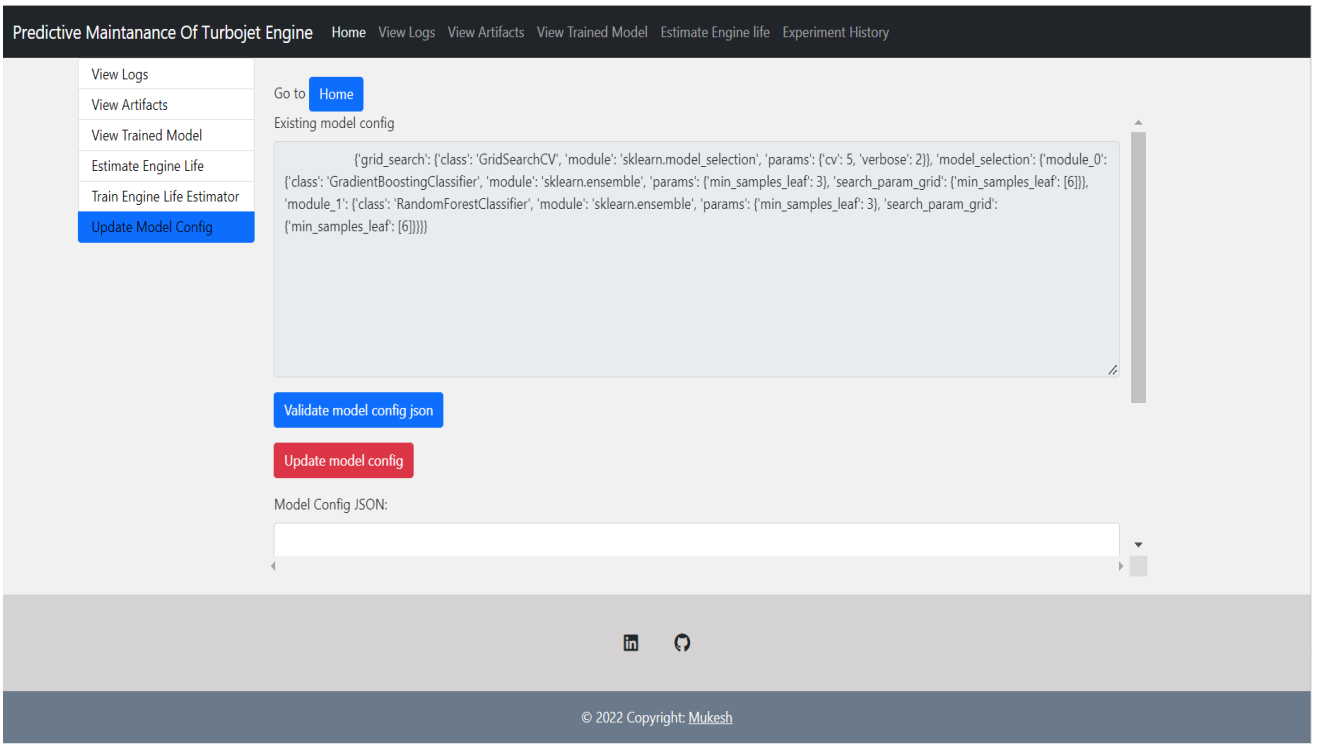


6. The User can access the Train Estiamte Engine Life to Monitor the Performance of the models in the Experiment.



	experiment_id	artifact_time_stamp	running_status	start_time	stop_time	execution_time	message	accuracy	is_model_accepted	created_time_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-9fd1-0e1a0555b52c	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-9fd1-0e1a0555b52c	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.



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

Search

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