

ENERGY EFFICIENCY ESTIMATION

Wire-frame Documentation

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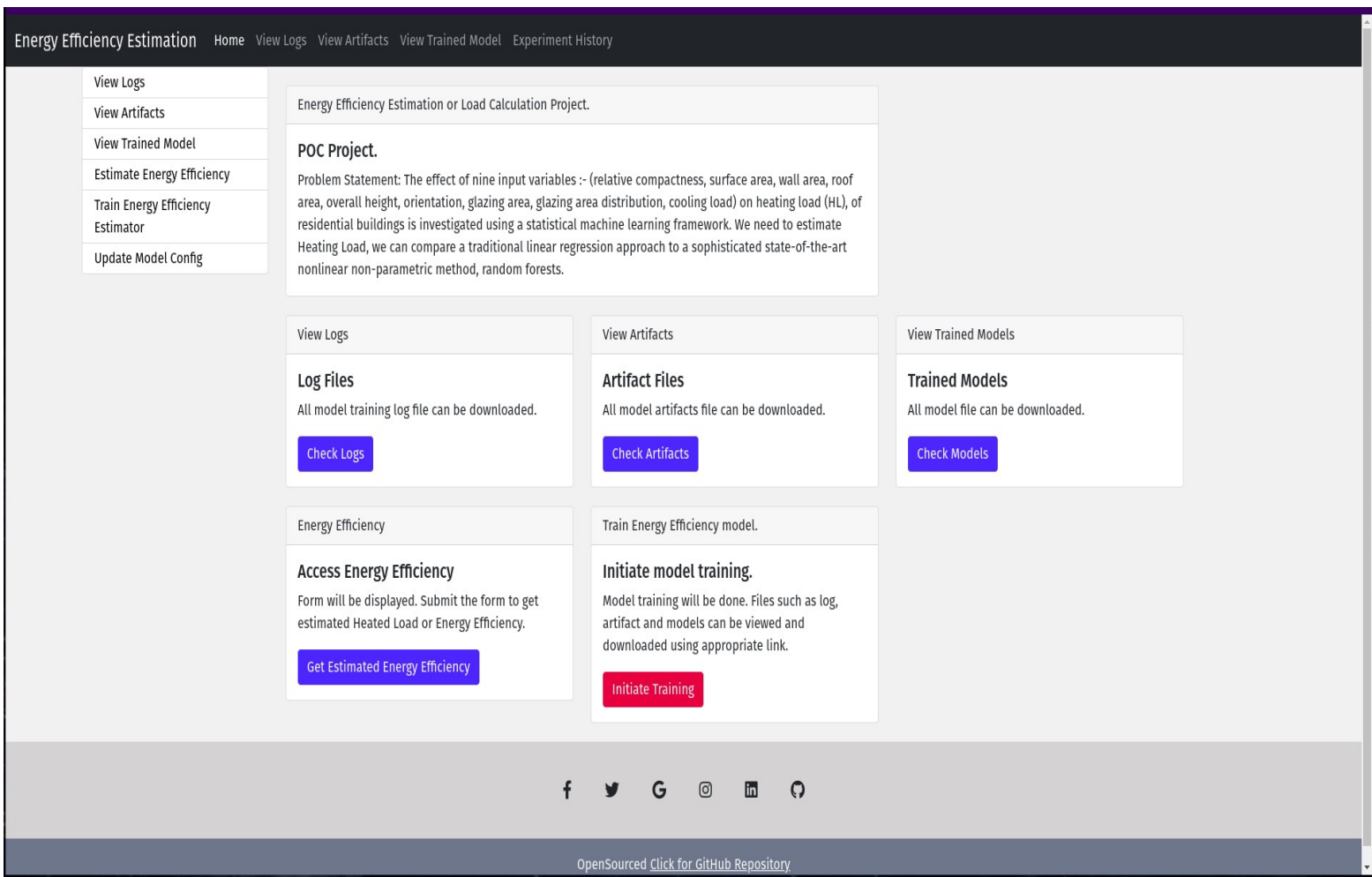


Fig:- Homepage for Web App

The Homepage shows the arrangements of following clickable Icons/options :-

- Name of the WebApp at the top-left.
- Clickable icons/options generating required files.
- Brief introduction of the problem statement.
- GitHub repository link for the sample code.

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[Home](#)
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[View Trained Model](#)
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Training started.

	experiment_id	artifact_time_stamp	running_status	start_time	stop_time	execution_time	message	accuracy	is_model_accepted	created_time_stamp
0	591e63b9-dd64-4d74-8c63-245665ef0516	2022-11-02-14-56-33	True	2022-11-02 14:56:33.992358	NaN	NaN	Pipeline has been started.	NaN	NaN	2022-11-02 14:56:33.992591
1	591e63b9-dd64-4d74-8c63-245665ef0516	2022-11-02-14-56-33	False	2022-11-02 14:56:33.992358	2022-11-02 14:56:35.840939	0 days 00:00:01.848581	Pipeline has been completed.	0.989462	True	2022-11-02 14:56:35.841025

[f](#)
[t](#)
[G](#)
[@](#)
[in](#)
[m](#)

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Fig :- Train Energy Efficiency Estimator button starts Training

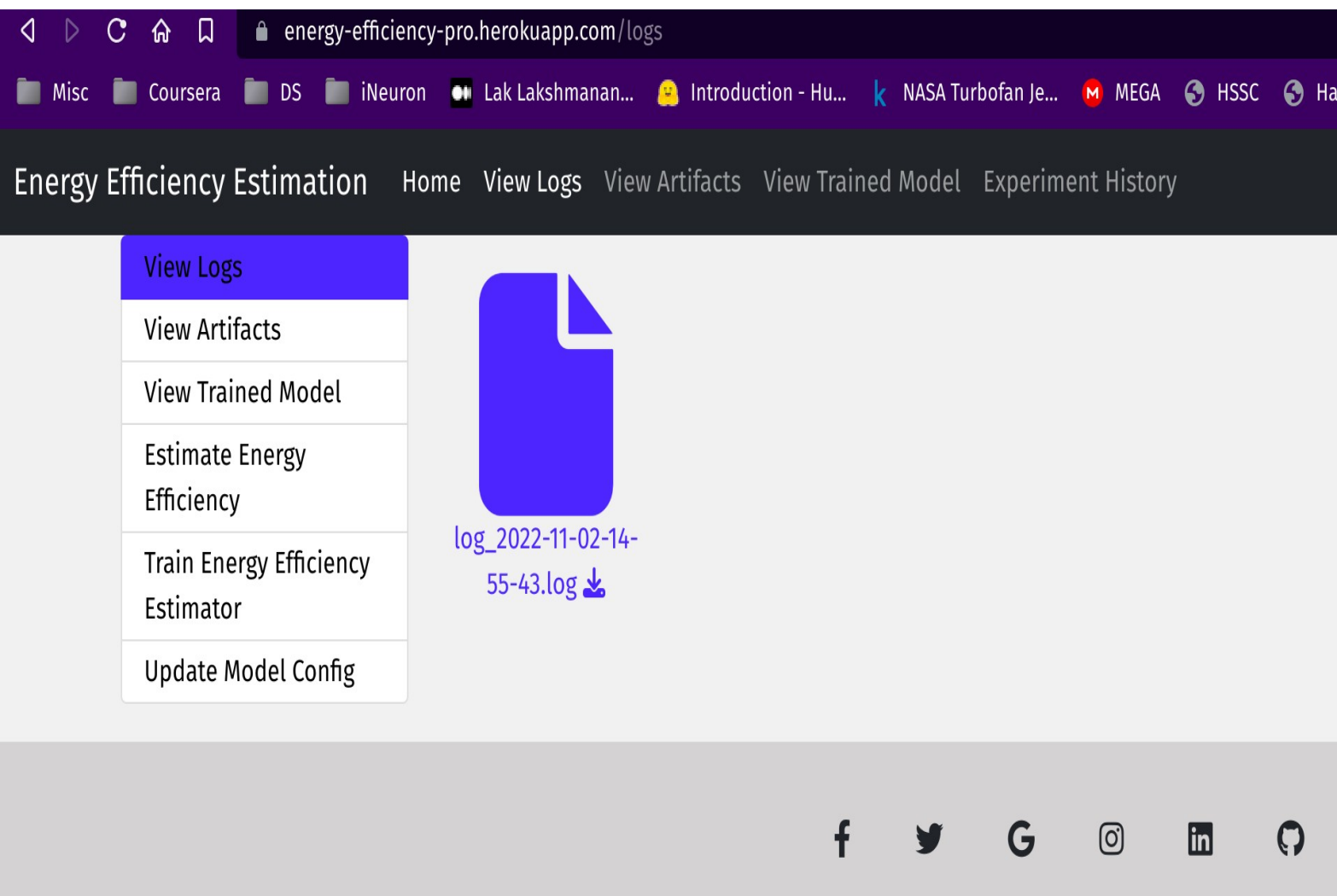


Fig :- Log files can be viewed via View Logs

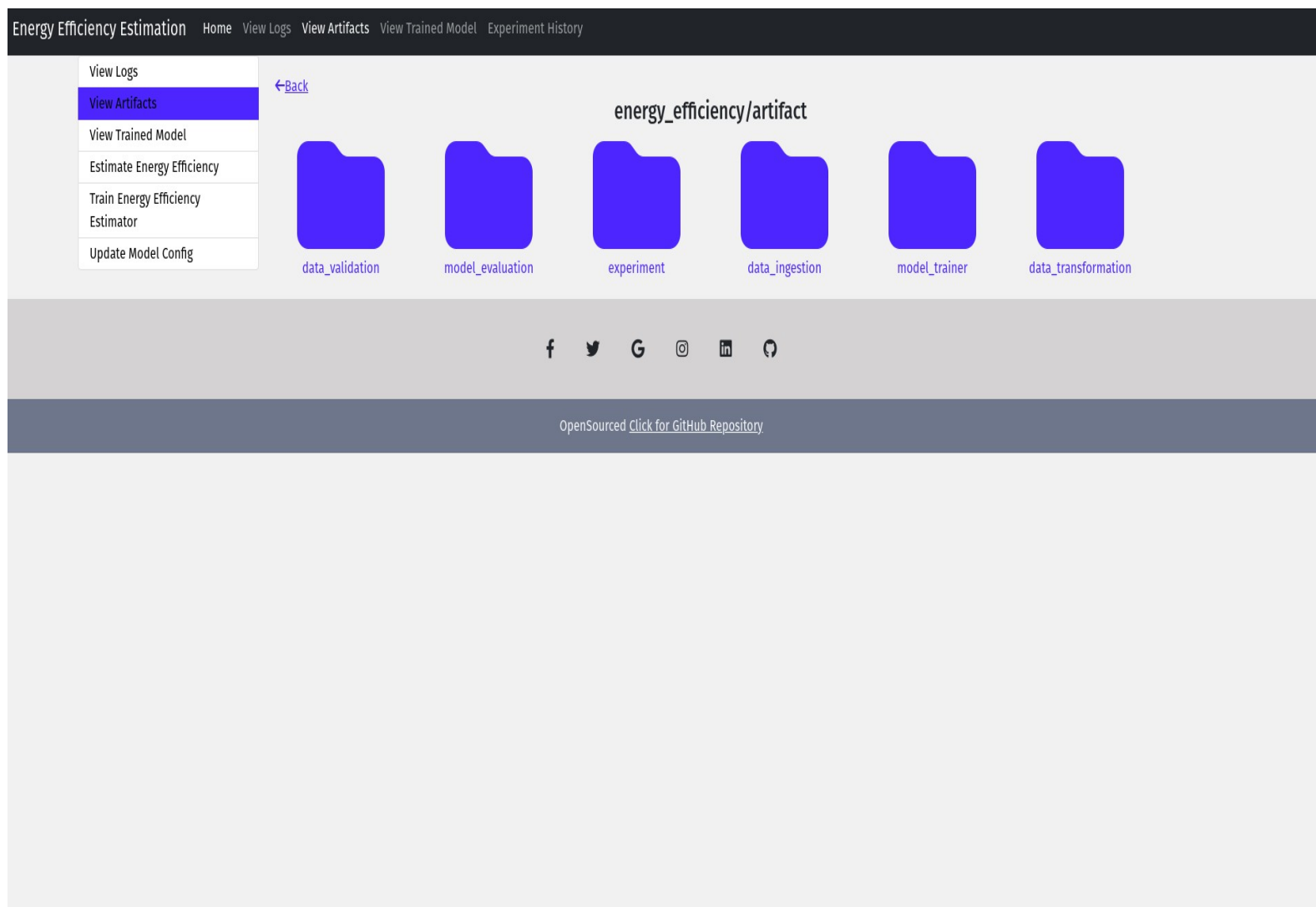


Fig :- Artifacts generated at various stages

View Logs

View Artifacts

View Trained Model

Estimate Energy Efficiency

Train Energy Efficiency
Estimator

Update Model Config

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saved_models/20221102145635



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Fig :- Trained Model file generated

View Logs

View Artifacts

View Trained Model

Estimate Energy Efficiency

Train Energy Efficiency Estimator

Update Model Config

Energy Efficiency Estimation Form

relative_compactness

Enter a value of relative_compactness

surface_area

Enter a value of surface_area

wall_area

Enter a value of wall_area

roof_area

Enter a value of roof_area

overall_height

Enter a value of overall_height

orientation

Enter a value of orientation

glazing_area

Enter a value of glazing_area

glazing_area_distribution

Enter a value of glazing_area_distribution

cooling_load

Enter a value of cooling_load

Predict heating_load Value

Energy Efficiency or Heating Load

Input Feature	Feature Value
relative_compactness	0.79
surface_area	637.0
wall_area	343.0
roof_area	147.0
overall_height	7.0
orientation	4.0
glazing_area	0.25
glazing_area_distribution	5.0
cooling_load	45.28
heating_load	[38.87523964]

Energy Efficiency or Heating Load

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Fig :- App Prediction for single instance

- View Logs
- View Artifacts
- View Trained Model
- Estimate Energy Efficiency
- Train Energy Efficiency Estimator
- Update Model Config

Go to [Home](#)

	experiment_id	artifact_time_stamp	running_status	start_time	stop_time	execution_time	message	accuracy	is_model_accepted	created_time_stamp
0	591e63b9-dd64-4d74-8c63-245665ef0516	2022-11-02-14-56-33	True	2022-11-02 14:56:33.992358	NaN	NaN	Pipeline has been started.	NaN	NaN	2022-11-02 14:56:33.992591
1	591e63b9-dd64-4d74-8c63-245665ef0516	2022-11-02-14-56-33	False	2022-11-02 14:56:33.992358	2022-11-02 14:56:35.840939	0 days 00:00:01.848581	Pipeline has been completed.	0.989462	True	2022-11-02 14:56:35.841025
2	d11c3f67-51ab-40ef-bd7c-763c9de7fcf6	2022-11-02-15-11-25	True	2022-11-02 15:11:25.583273	NaN	NaN	Pipeline has been started.	NaN	NaN	2022-11-02 15:11:25.583392
3	d11c3f67-51ab-40ef-bd7c-763c9de7fcf6	2022-11-02-15-11-25	False	2022-11-02 15:11:25.583273	2022-11-02 15:11:27.420163	0 days 00:00:01.836890	Pipeline has been completed.	0.989174	False	2022-11-02 15:11:27.420251



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Fig :- Experiment History shows recently run experiments