

# **Energy Efficiency**

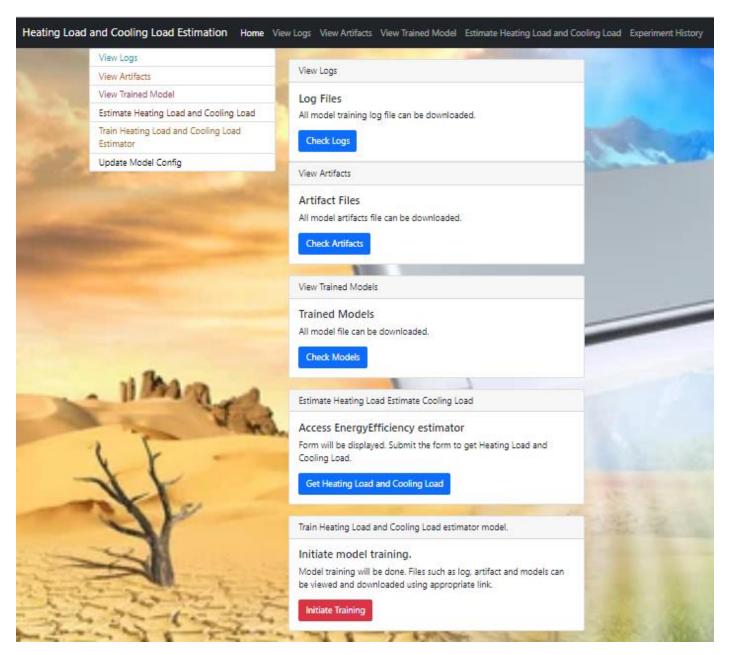
## Wireframe Documentation

Written By	MANJUNATH BHASHYAM
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### **Homepage**

1. Once the end user accesses the deployed URL and clicks on Home Button - he is navigated to the below homepage of Heating Load and Cooling Load Estimation.



2. On the homepage displayed user can access the top Nav Bar, the left side bar and also the tabs shown on the homepage.



#### **Model Training Page**

- The user initially needs to Train the Machine Learning Model which carries out the step-by-step procedure mentioned in our Pipeline and saves the best Model under "View Trained Model Folder". In order to achieve this the user needs to click on "Train Heating Load and Cooling Load Estimator" provided on the left bar or click on "Initiate training" on the Homepage.
- 2. User will receive a response saying "Training Started" and soon within a span of time the model training gets completed and similar kind of results shown below will be achieved.



- 3. The status of the Model Training and the Accuracy obtained can be accessed by clicking on "Experiment History" provided on the top Nav Bar.
- Trained Best Model is saved and can be accessed in the "View Trained Model Folder".





#### View Logs

1. The log messages of all the steps carried out in the pipeline from the start of the Data Ingestion to the Model Push can be accessed via the log folder provided along with timestamp by clicking on "View Logs".



2. Sample of log data shown below. User can read the messages and access further with the scroll bar (marked yellow in the image).





#### View Artifact

1. Artifact is the output of each component in the pipeline and the same can be accessed by clicking on "View Artifacts".



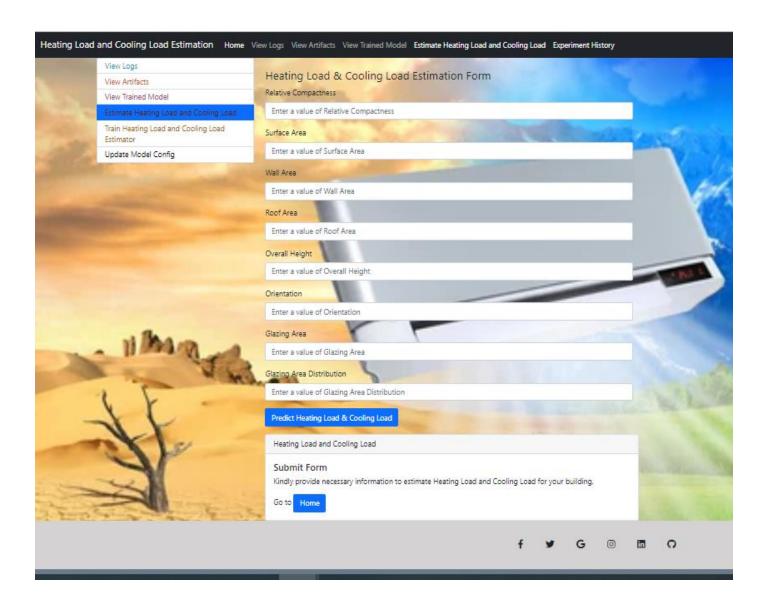
2. The below individual folders can be accessed for the respective artifacts of the components.





#### Estimate Heating Load and Cooling Load

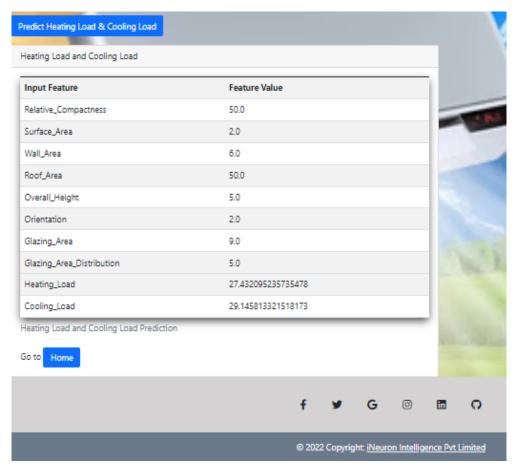
1. To estimate the output features the user has to enter the input parameters in the "Heating Load & Cooling Load Estimation Form" provided which can be accessed using "Estimate Heating Load and Cooling Load" on the left Nav bar or by clicking on "Get Heating Load and Cooling Load" on the homepage.





2. The user has to enter the input parameters and then click on "Predict Heating Load & Cooling" Load" to get the output.

#### Sample output shown below



#### **Update Model Config**

User can modify or choose his own Machine Learning model by entering in the below "Update Model Config" area in JSON format along with the hyper-parameter tuning they want to perform.

