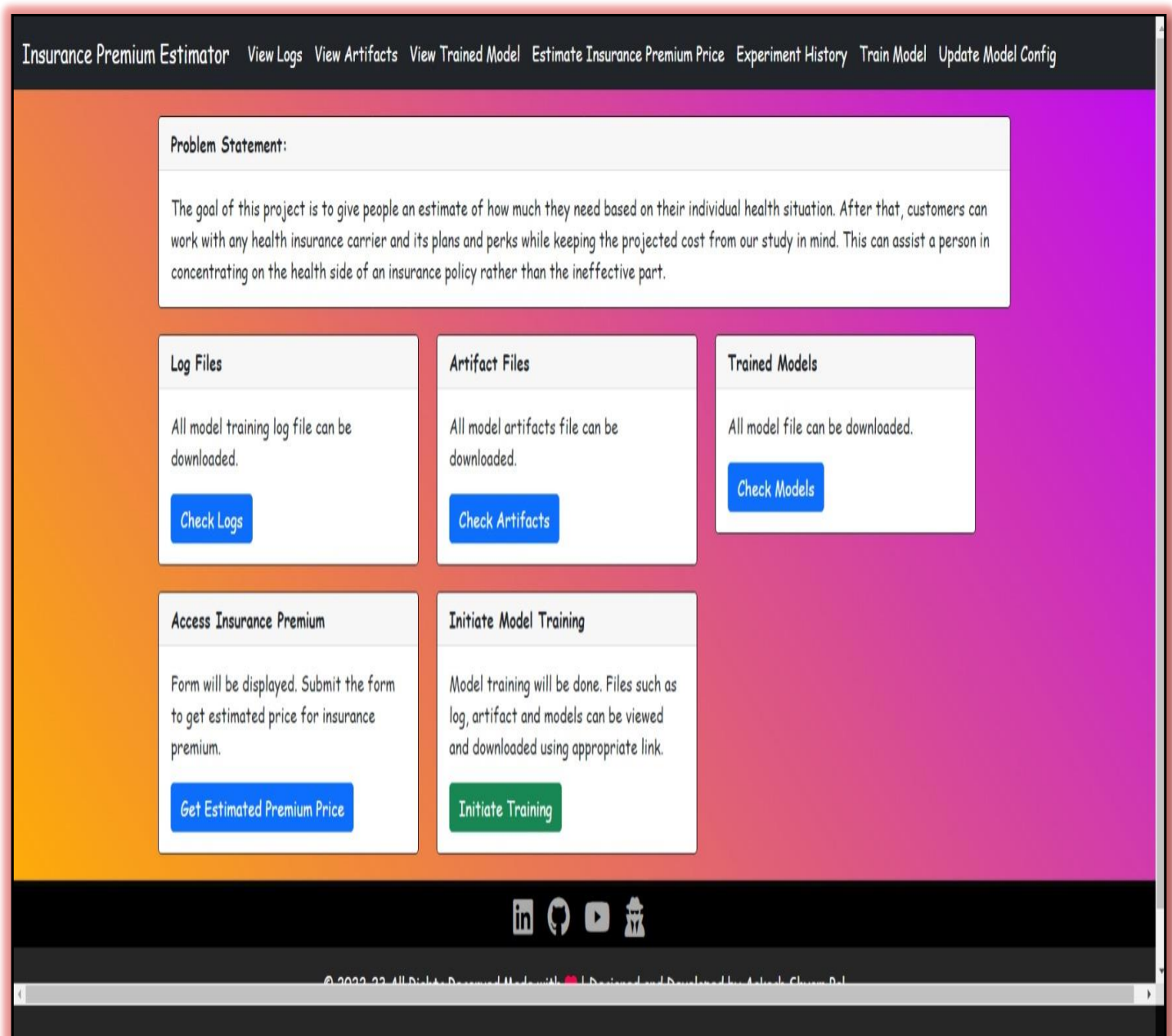


Insurance Premium Prediction

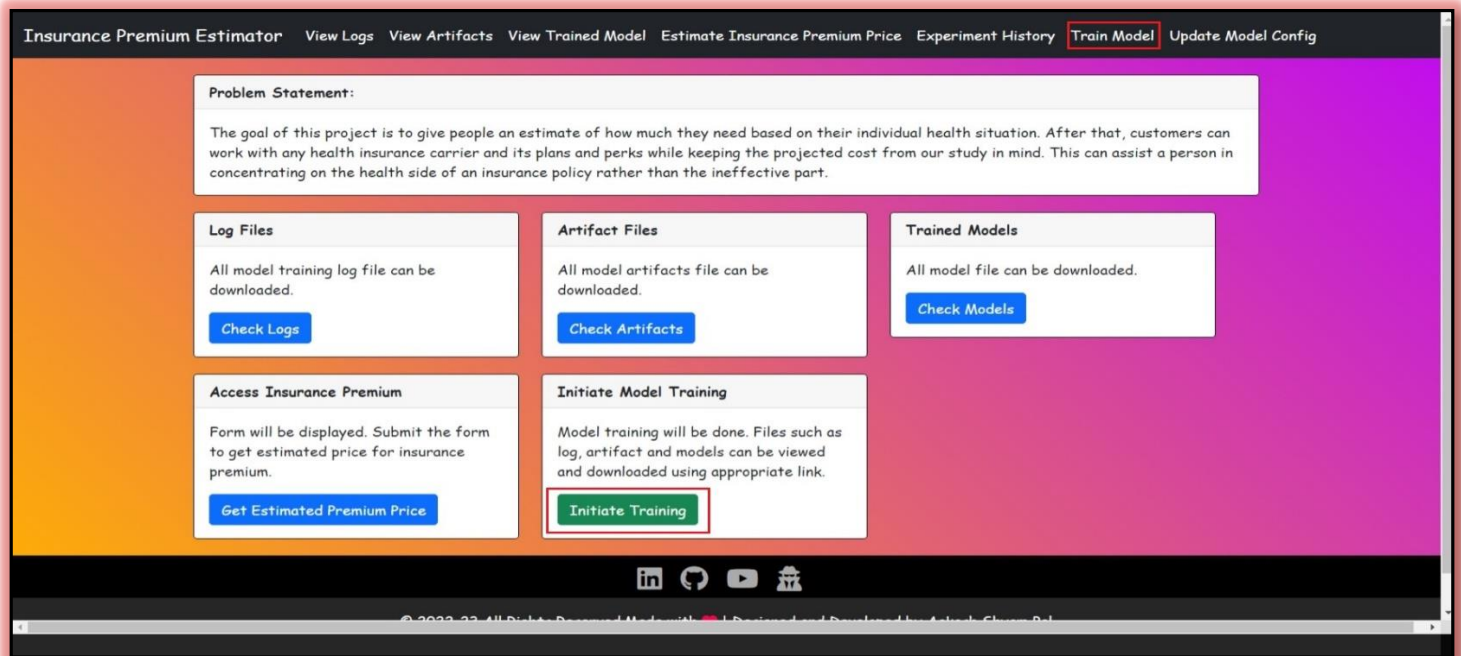
Wireframe Document

Homepage

The homepage consists of a single page having a different sections to go. The page is designed in such a way so that the users can switch between the Home page, View logs, View Artifact, View trained models, Estimate Insurance Premium price prediction, and Train insurance premium models. There are five different sections on the homepage where the user can switch according to requirements.



To train our model, click on Initiate Training or Train Model option



Our model will train, and it will give the result

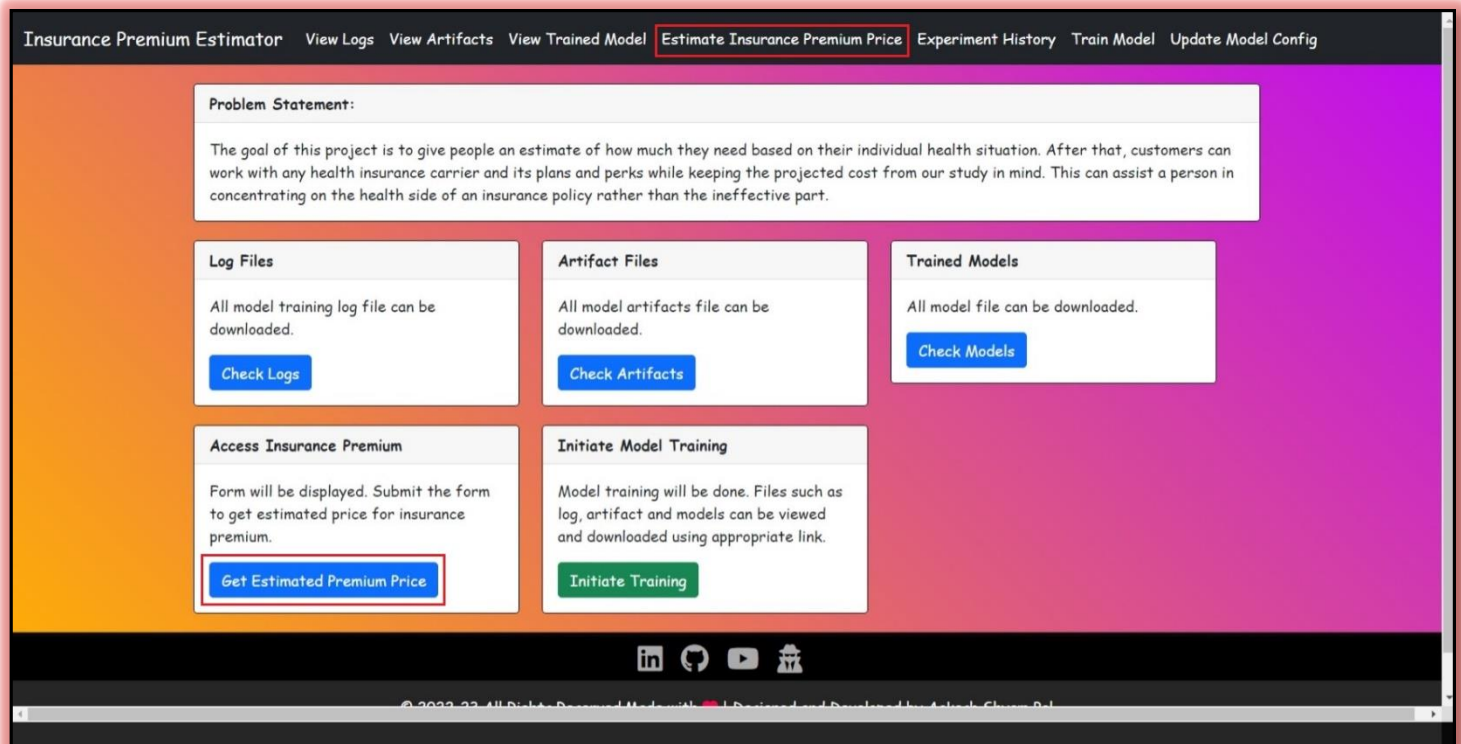
Insurance Premium Estimator View Logs View Artifacts View Trained Model Estimate Insurance Premium Price Experiment History **Train Model** Update Model Config

Training started.

	experiment_id	artifact_time_stamp	running_status	start_time	stop_time	execution_time	message	accuracy	is_model_accepted	created_time_stamp
0	87bbf929-941f-4868-9f3d-e7bae6234efc	2023-01-18-13-25-37	True	2023-01-18 13:25:37.647596	NaN	NaN	Pipeline has been started.	NaN	NaN	2023-01-18 13:25:37.648593
1	87bbf929-941f-4868-9f3d-e7bae6234efc	2023-01-18-13-25-37	False	2023-01-18 13:25:37.647596	2023-01-18 13:25:40.737869	0 days 00:00:03.090273	Pipeline has been completed.	0.859464	True	2023-01-18 13:25:40.737869

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After our model is trained successfully, we can start our prediction using the option Get Estimated Premium Price or Estimate Insurance Premium Price option.



Fill out the form below to receive a quote for your insurance premium.

The screenshot shows the 'Insurance Premium Estimation Form' and the resulting 'Insurance Premium price' table. The form fields are filled with: Age (32), Sex (Male), BMI (28.9), Children (0), Smoker (No), and Region (northwest). The 'Predict Insurance Premium Value' button is highlighted. The results table shows the input features and their values, with the 'expenses' value highlighted in a red box.

Insurance Premium Estimation Form

Age: 32

Sex: Male

BMI: 28.9

Children: 0

Smoker: No

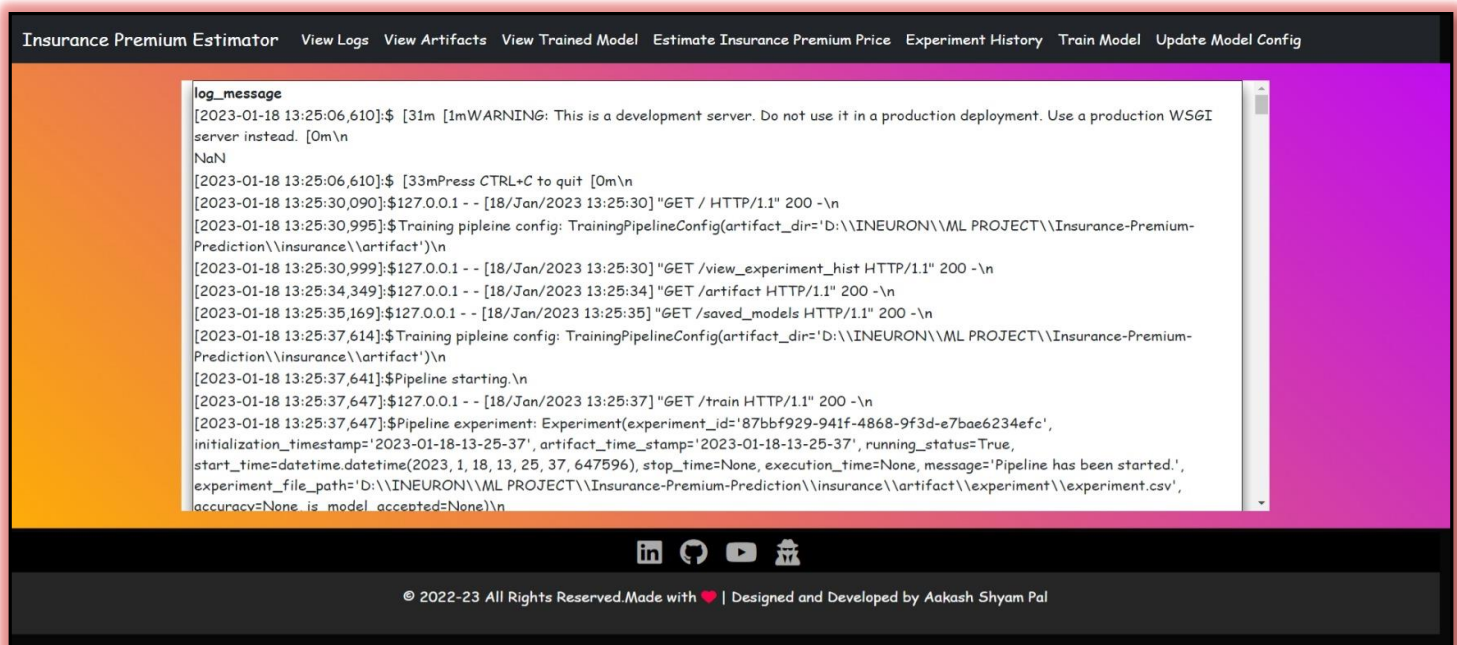
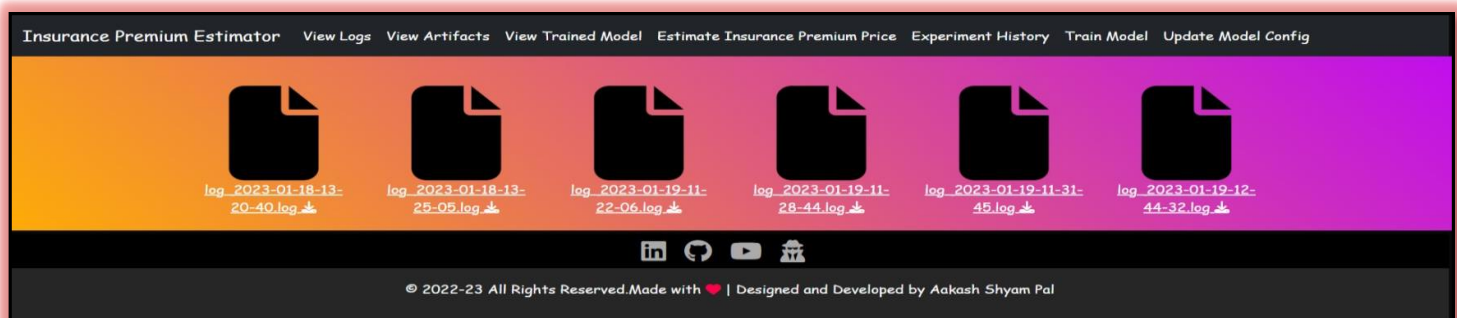
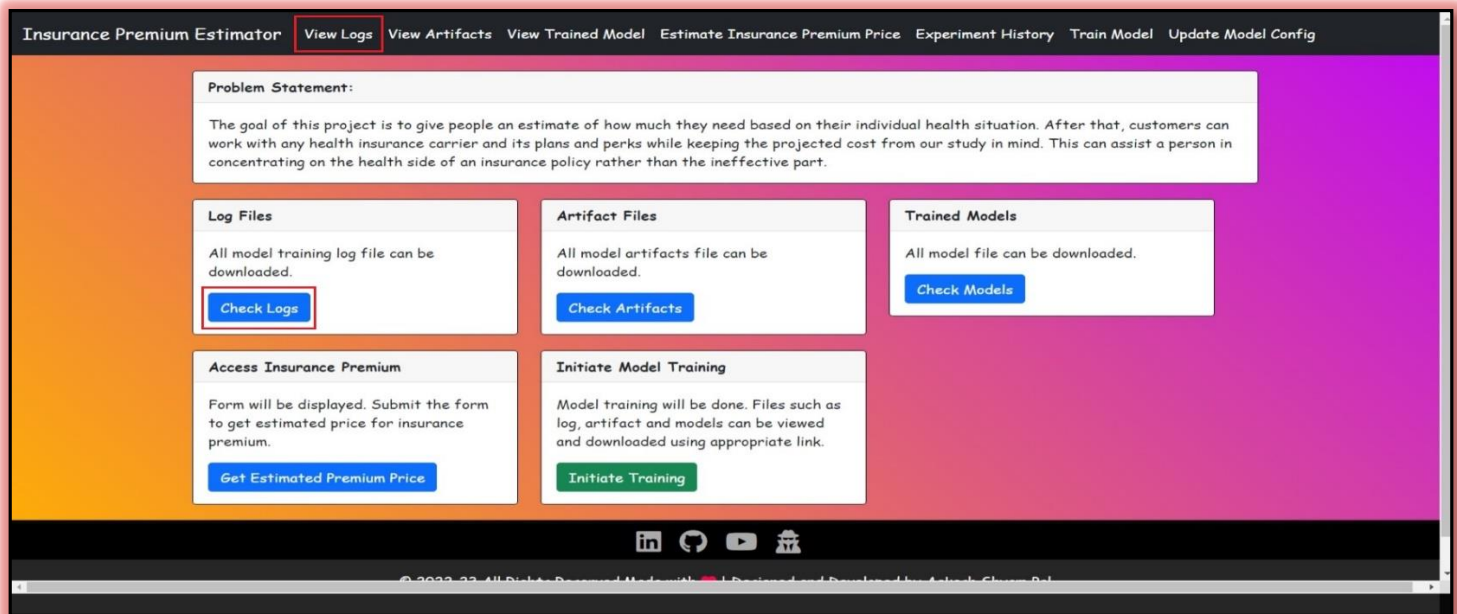
Region: northwest

[Predict Insurance Premium Value](#)

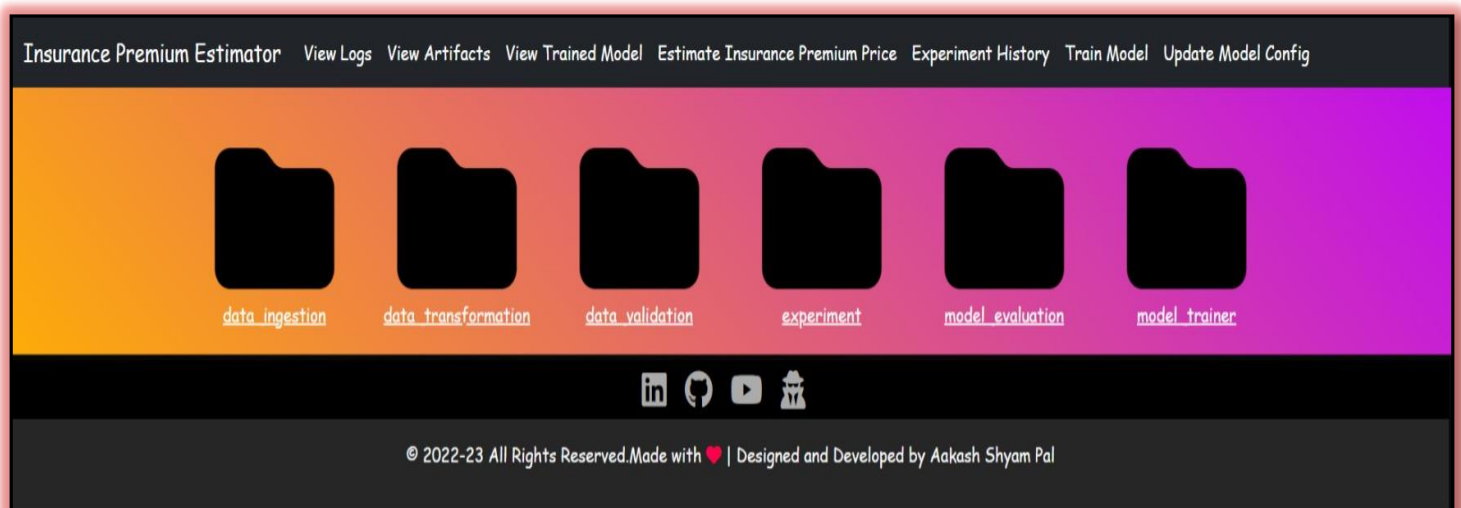
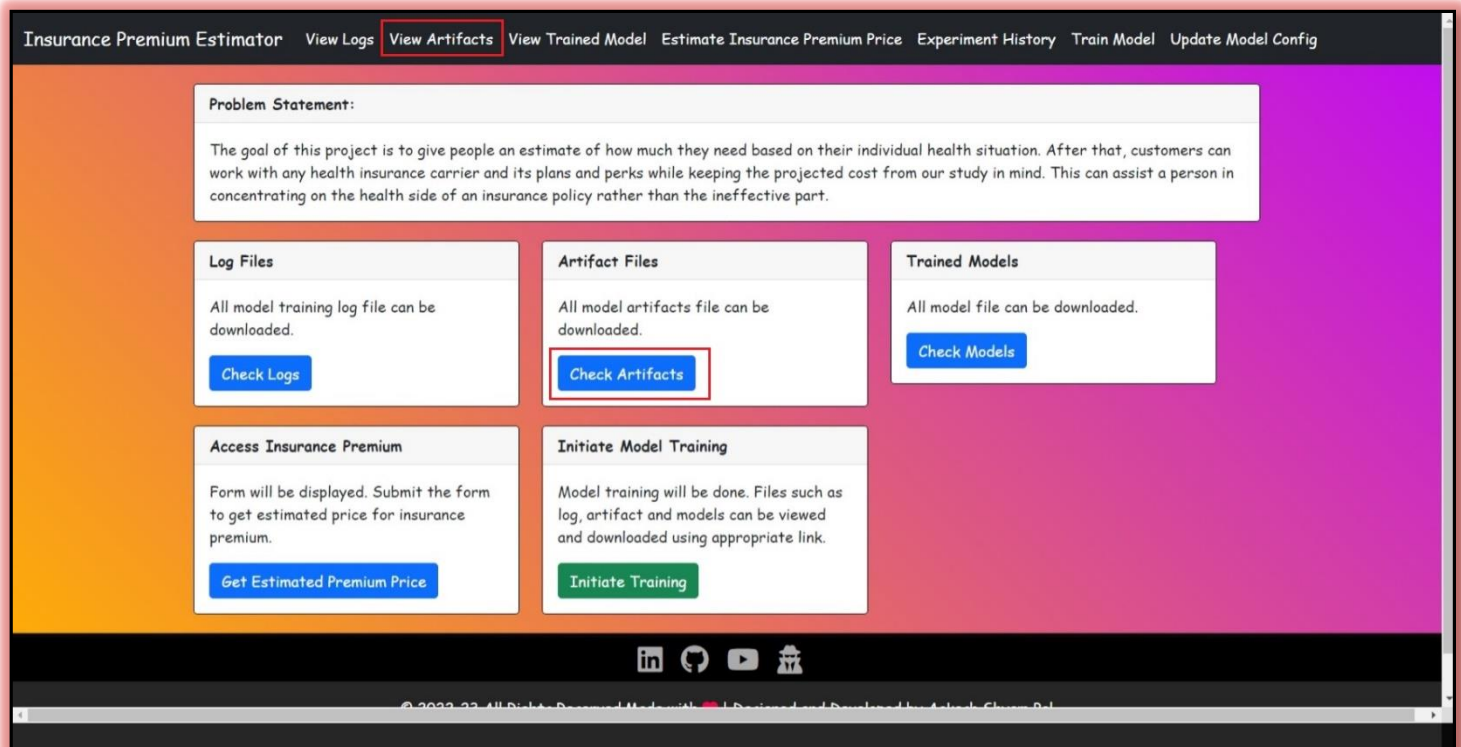
Insurance Premium price

Input Feature	Feature Value
age	32
sex	male
bmi	28.9
children	0
smoker	no
region	northwest
expenses	4692.9162532492965

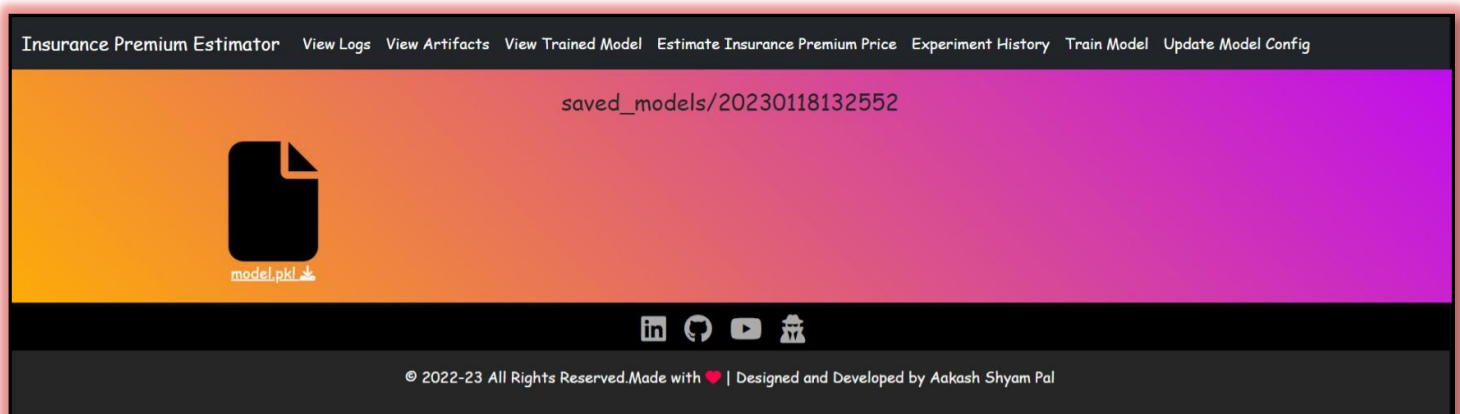
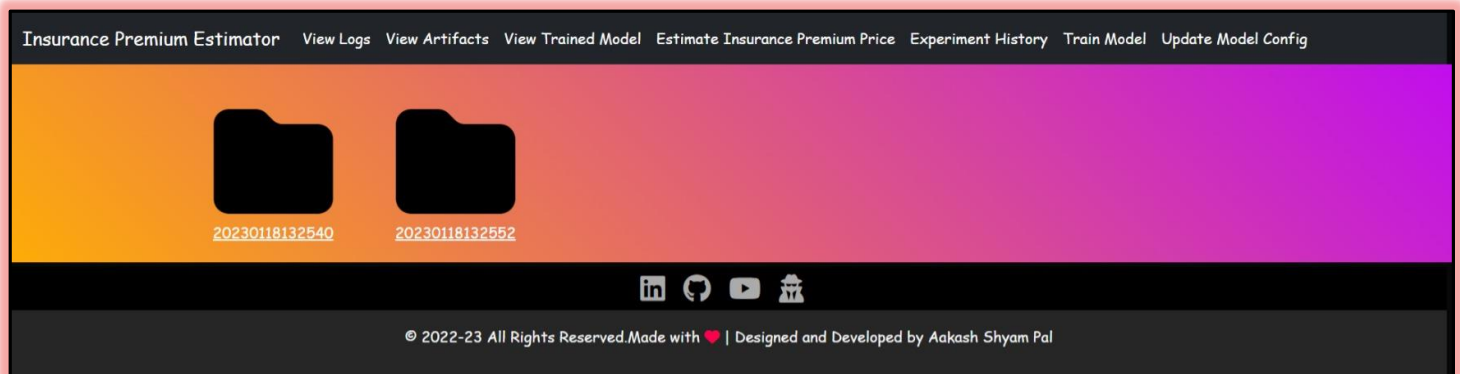
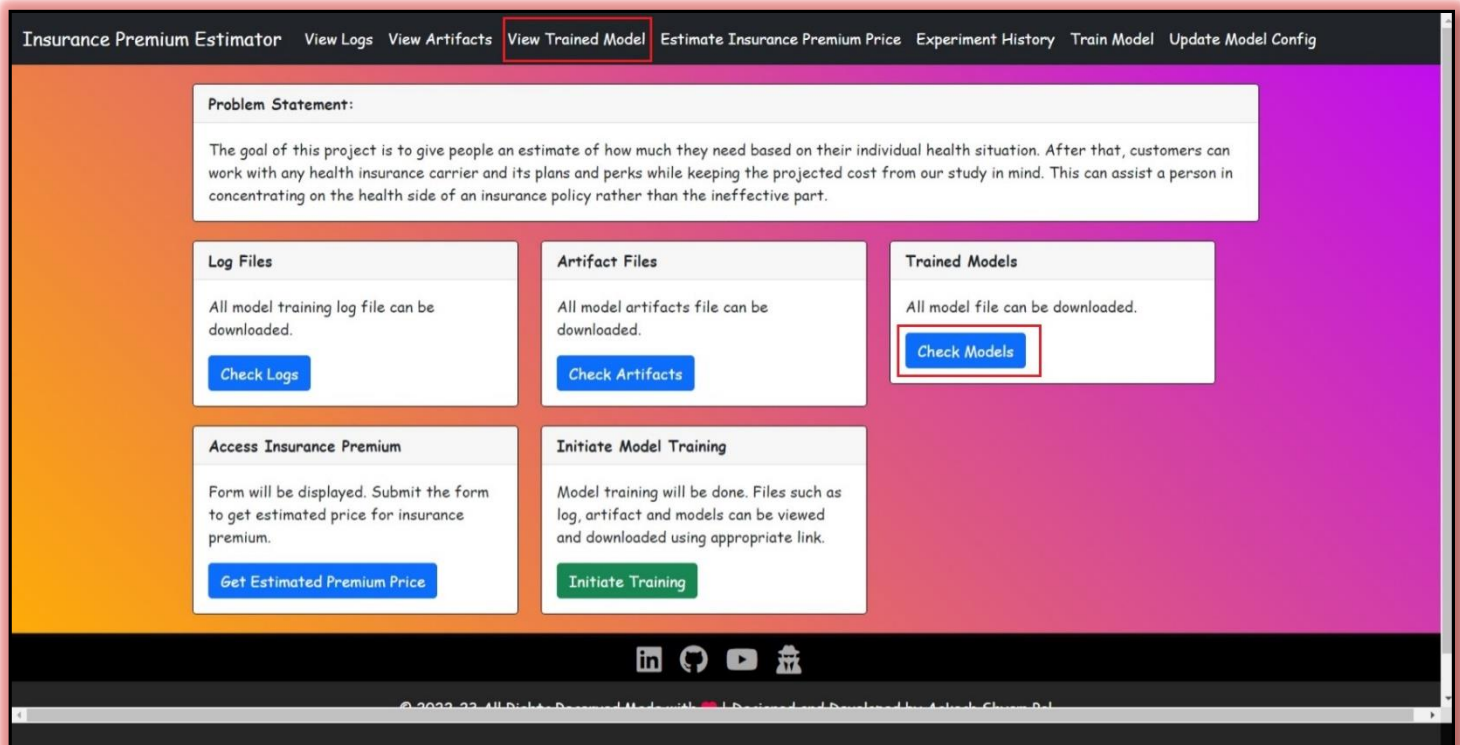
After getting our premium, we can view logs by clicking on check logs or view logs option.



After checking logs, we can view our artifacts by clicking on Check artifacts or View artifacts option.



After checking the artifact, we can see our saved model by clicking on check model or view trained model option.



To check the history of all the experiments, click on experiment history.

Insurance Premium Estimator View Logs View Artifacts View Trained Model Estimate Insurance Premium Price **Experiment History** Train Model Update Model Config

Problem Statement:

The goal of this project is to give people an estimate of how much they need based on their individual health situation. After that, customers can work with any health insurance carrier and its plans and perks while keeping the projected cost from our study in mind. This can assist a person in concentrating on the health side of an insurance policy rather than the ineffective part.

Log Files
All model training log file can be downloaded.
[Check Logs](#)

Artifact Files
All model artifacts file can be downloaded.
[Check Artifacts](#)

Trained Models
All model file can be downloaded.
[Check Models](#)

Access Insurance Premium
Form will be displayed. Submit the form to get estimated price for insurance premium.
[Get Estimated Premium Price](#)

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](#)

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Insurance Premium Estimator View Logs View Artifacts View Trained Model Estimate Insurance Premium Price Experiment History Train Model Update Model Config

	experiment_id	artifact_time_stamp	running_status	start_time	stop_time	execution_time	message	accuracy	is_model_accepted	created_time_stamp
1	87bbf929-941f-4868-9f3d-e7bae6234efc	2023-01-18-13-25-37	False	2023-01-18 13:25:37.647596	2023-01-18 13:25:40.737869	0 days 00:00:03.090273	Pipeline has been completed.	0.859464	True	2023-01-18 13:25:40.737869
2	92bd8570-3fd9-41b5-a39d-4f28ad18ccf1	2023-01-18-13-25-51	True	2023-01-18 13:25:51.774436	NaN	NaN	Pipeline has been started.	NaN	NaN	2023-01-18 13:25:51.774436
3	92bd8570-3fd9-41b5-a39d-4f28ad18ccf1	2023-01-18-13-25-51	False	2023-01-18 13:25:51.774436	2023-01-18 13:25:52.959270	0 days 00:00:01.184834	Pipeline has been completed.	0.859464	True	2023-01-18 13:25:52.959270
4	ed7e549d-6b82-4a4f-a9c5-87185a5cd4c4	2023-01-19-13-29-26	True	2023-01-19 13:29:26.308812	NaN	NaN	Pipeline has been started.	NaN	NaN	2023-01-19 13:29:26.308812
5	ed7e549d-6b82-4a4f-a9c5-87185a5cd4c4	2023-01-19-13-29-26	False	2023-01-19 13:29:26.308812	2023-01-19 13:29:32.709822	0 days 00:00:06.401010	Pipeline has been completed.	0.859464	True	2023-01-19 13:29:32.709822

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To update the model configuration, click on update model config.

