

In comparing ways to predict the number of issues created or closed:

LSTM (Long Short-Term Memory): It's quick and focuses on the latest data trends. Think of it as staying updated with what's happening right now.

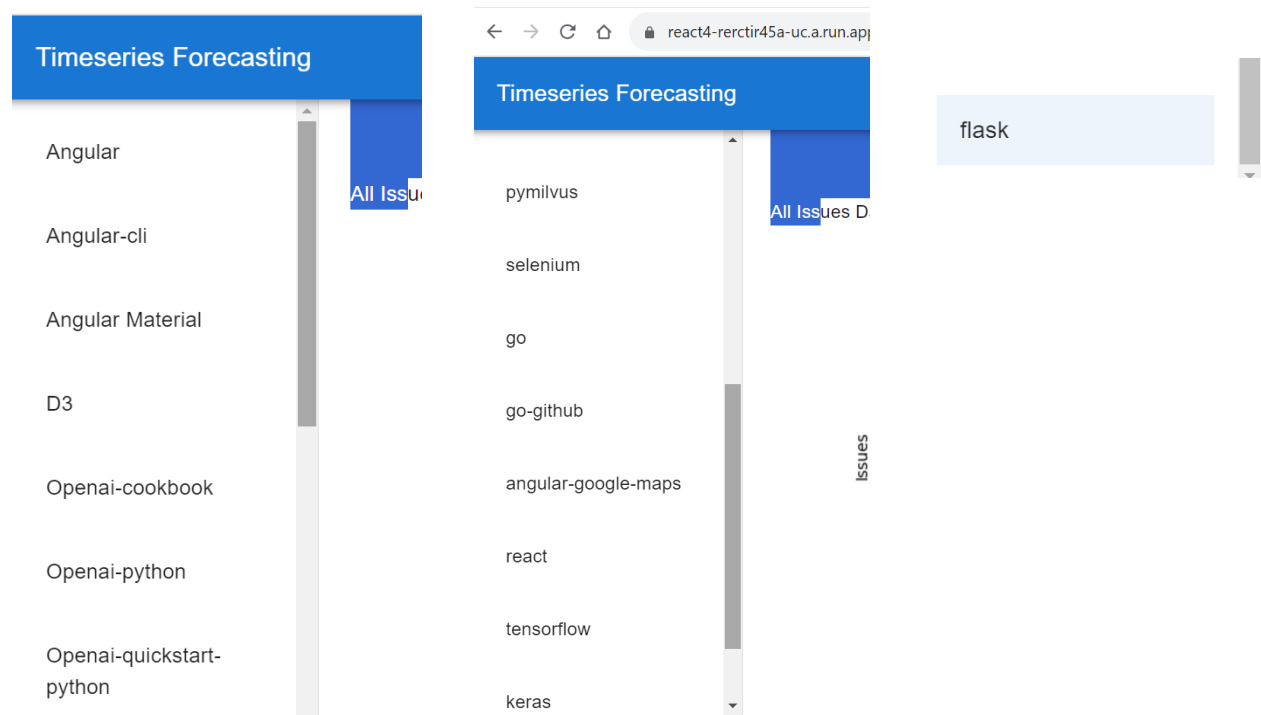
StatsModel: It's more traditional and checks its results against established statistical methods. This can take a bit more time but ensures reliability.

Prophet: It looks at the entire history of data. It's thorough but might take more time compared to LSTM.

In the end, after considering all these methods, the conclusion is that LSTM comes out on top—it's the most effective for predicting the number of issues. StatsModel is a decent choice, a bit slower but reliable. Prophet is okay, but it's not as fast as LSTM.

So, the ranking would be: LSTM is the best, followed by StatsModel, and then Prophet. That's the summary of our analysis.

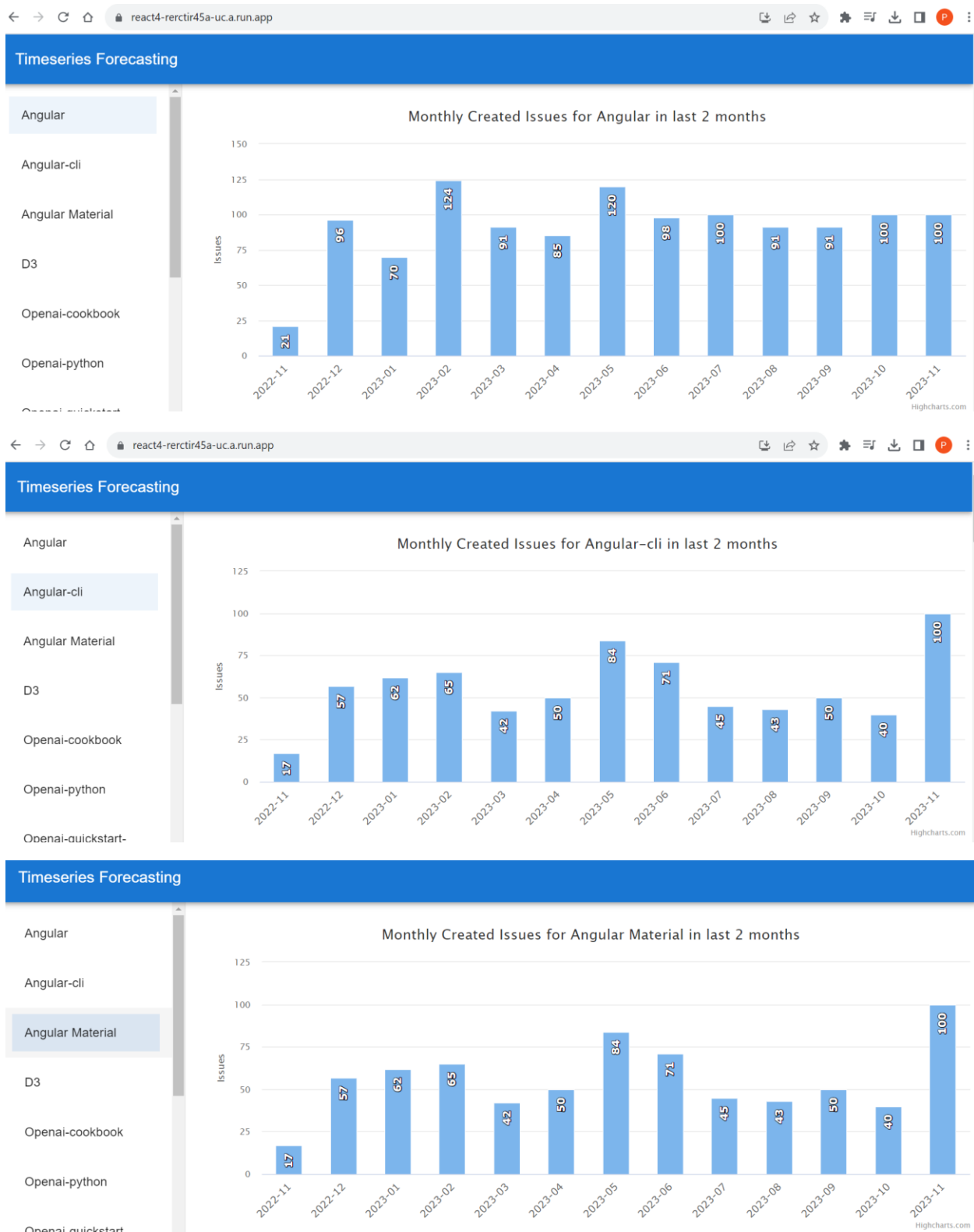
1.



5. Line Chart for every repo



2. A Bar Chart to plot the issues created for every month for every Repo





Timeseries Forecasting

Openai-quickstart-
python

pymilvus

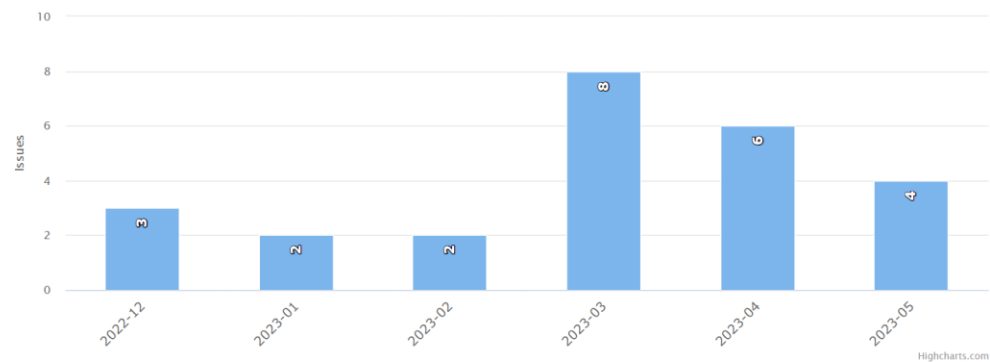
selenium

go

go-github

angular-google-maps

Monthly Created Issues for Openai-quickstart-python in last 2 months



Highcharts.com

Timeseries Forecasting

Openai-quickstart-
python

pymilvus

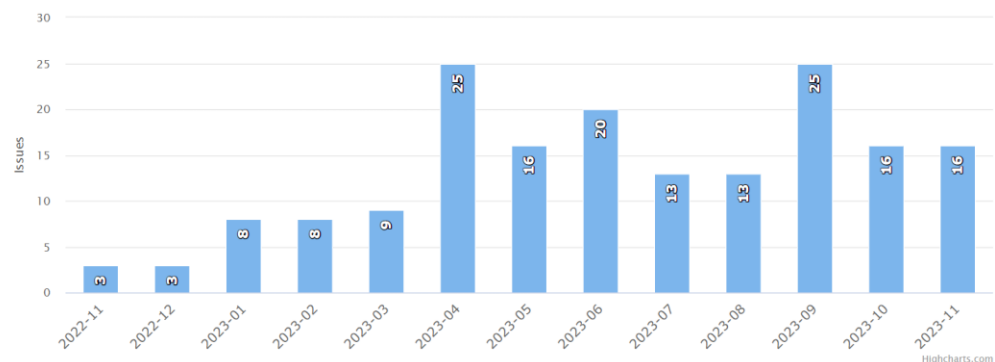
selenium

go

go-github

angular-google-maps

Monthly Created Issues for pymilvus in last 2 months



Highcharts.com

Timeseries Forecasting

Openai-quickstart-
python

pymilvus

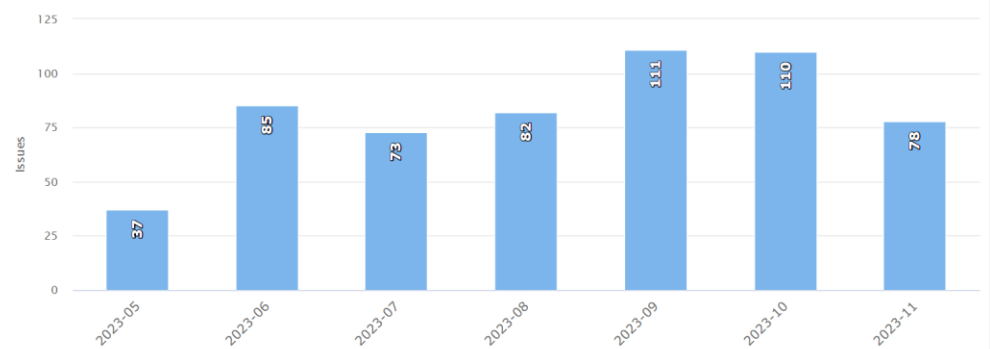
selenium

go

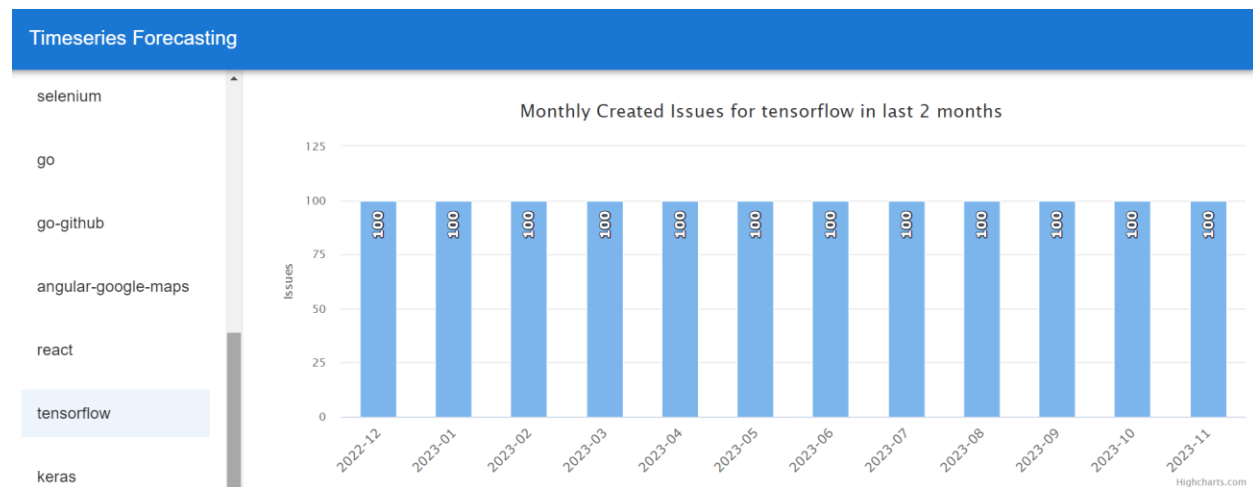
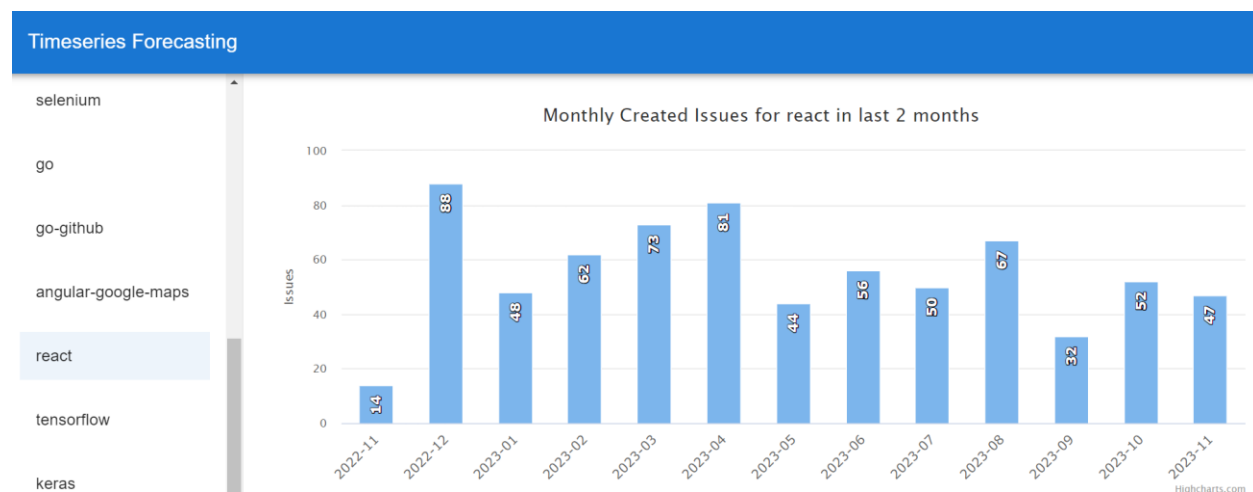
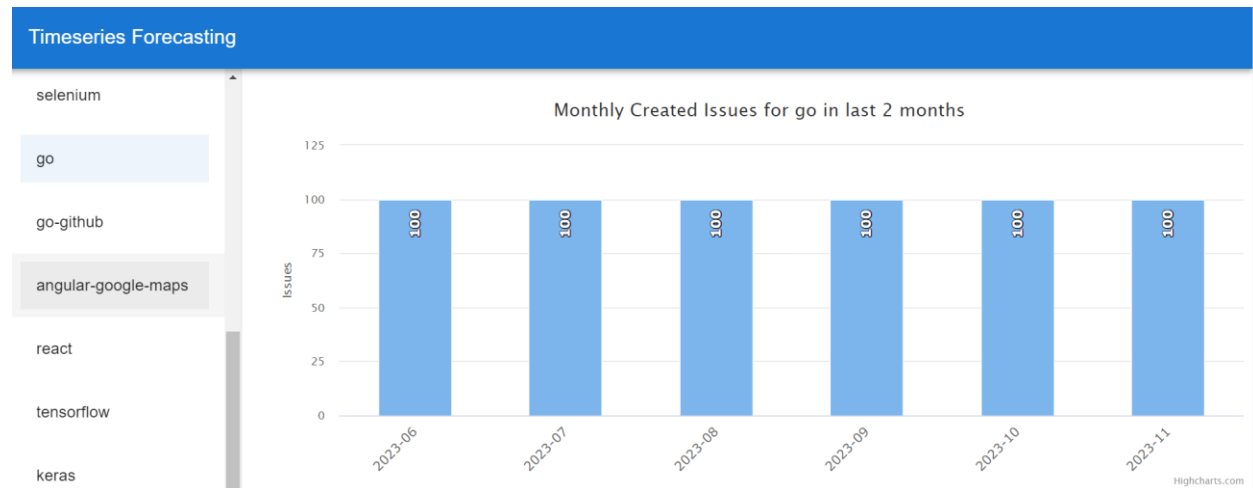
go-github

angular-google-maps

Monthly Created Issues for selenium in last 2 months

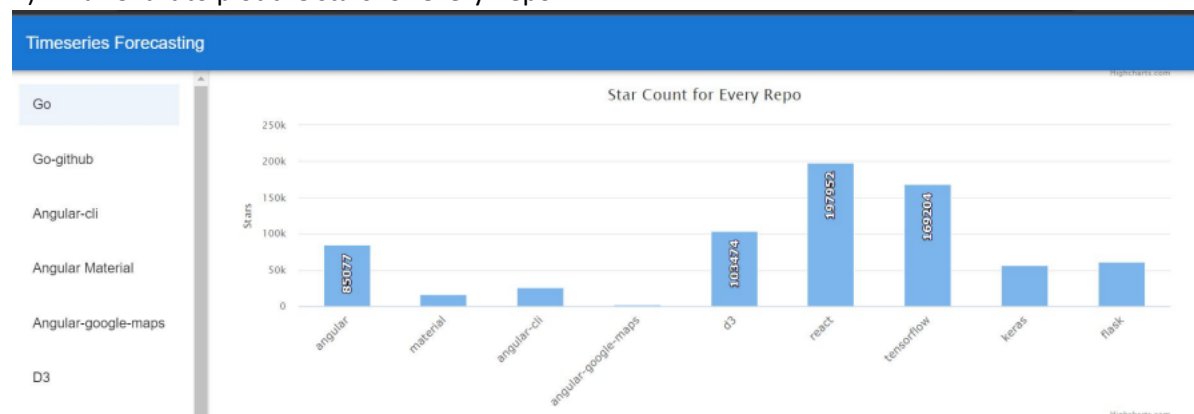


Highcharts.com

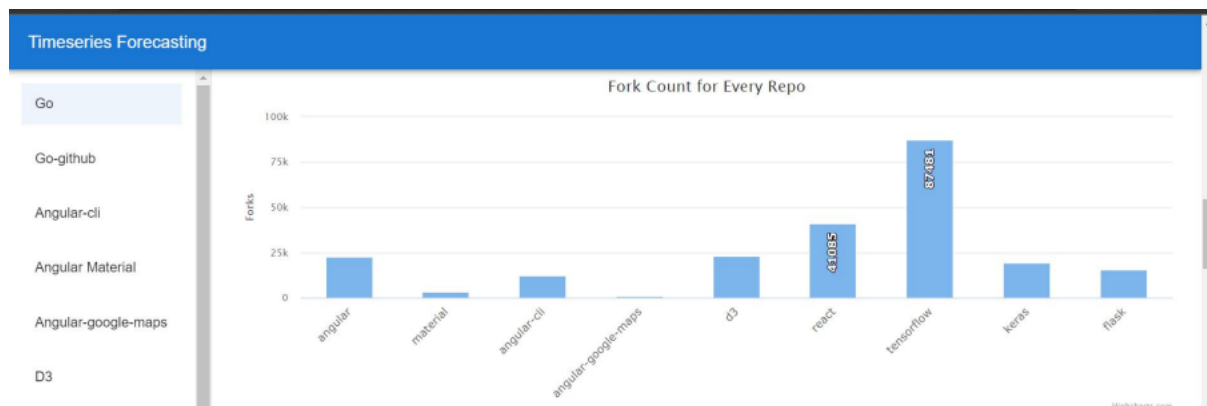




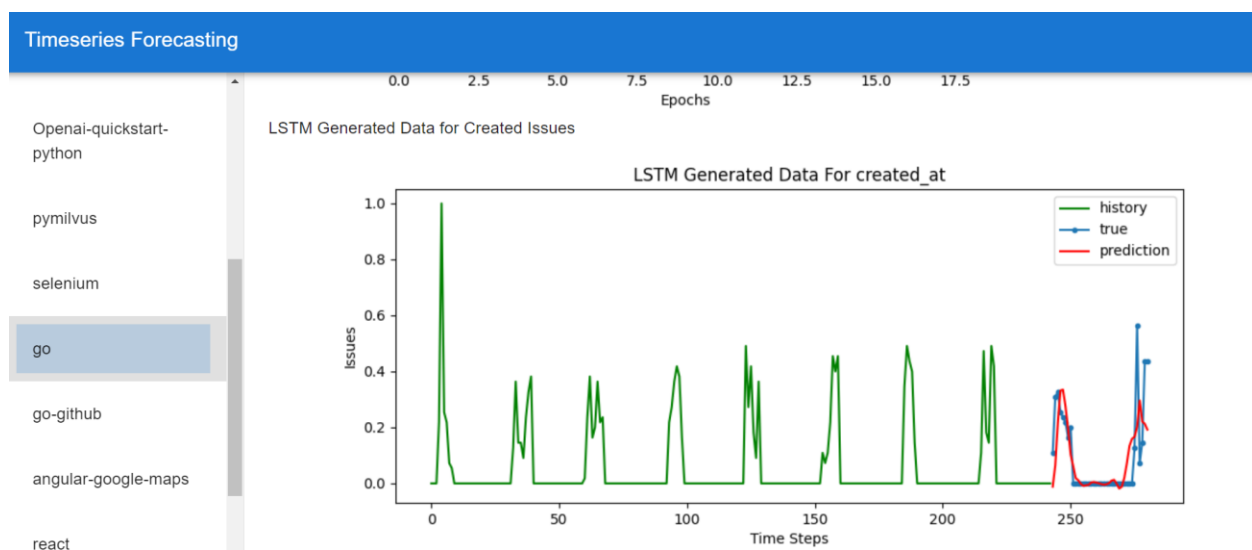
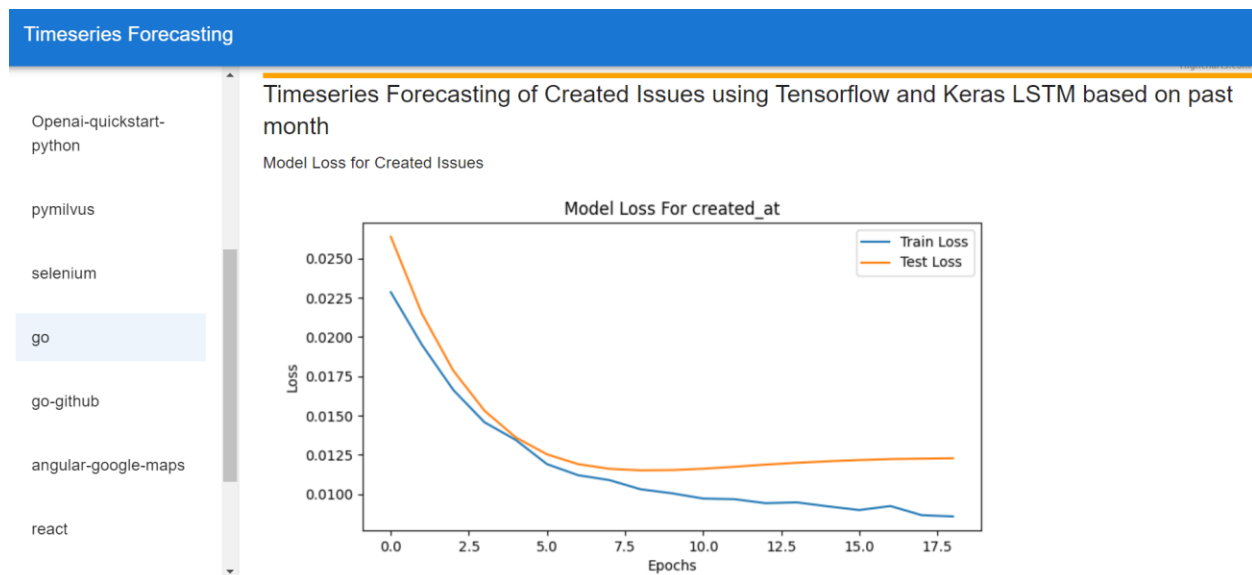
7) A Bar Chart to plot the stars for every Repo



8) A Bar Chart to plot the forks for every Repo



11. LSTM forecast



Timeseries Forecasting

Openai-quickstart-
python

pymilvus

selenium

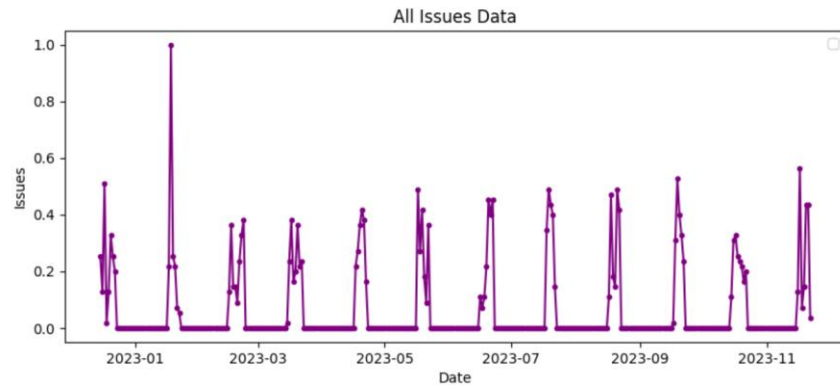
go

go-github

angular-google-maps

react

All Issues Data for Created Issues



Timeseries Forecasting

Openai-quickstart-
python

pymilvus

selenium

go

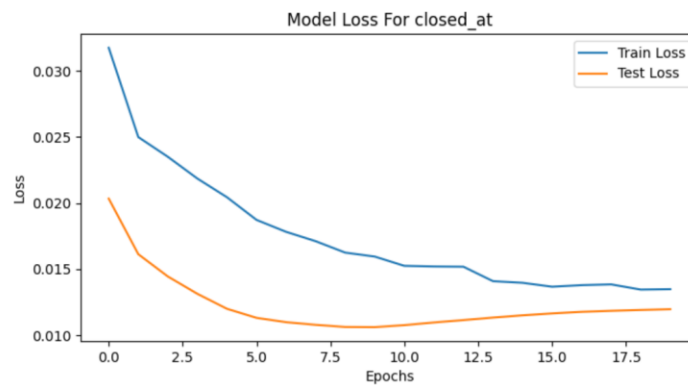
go-github

angular-google-maps

react

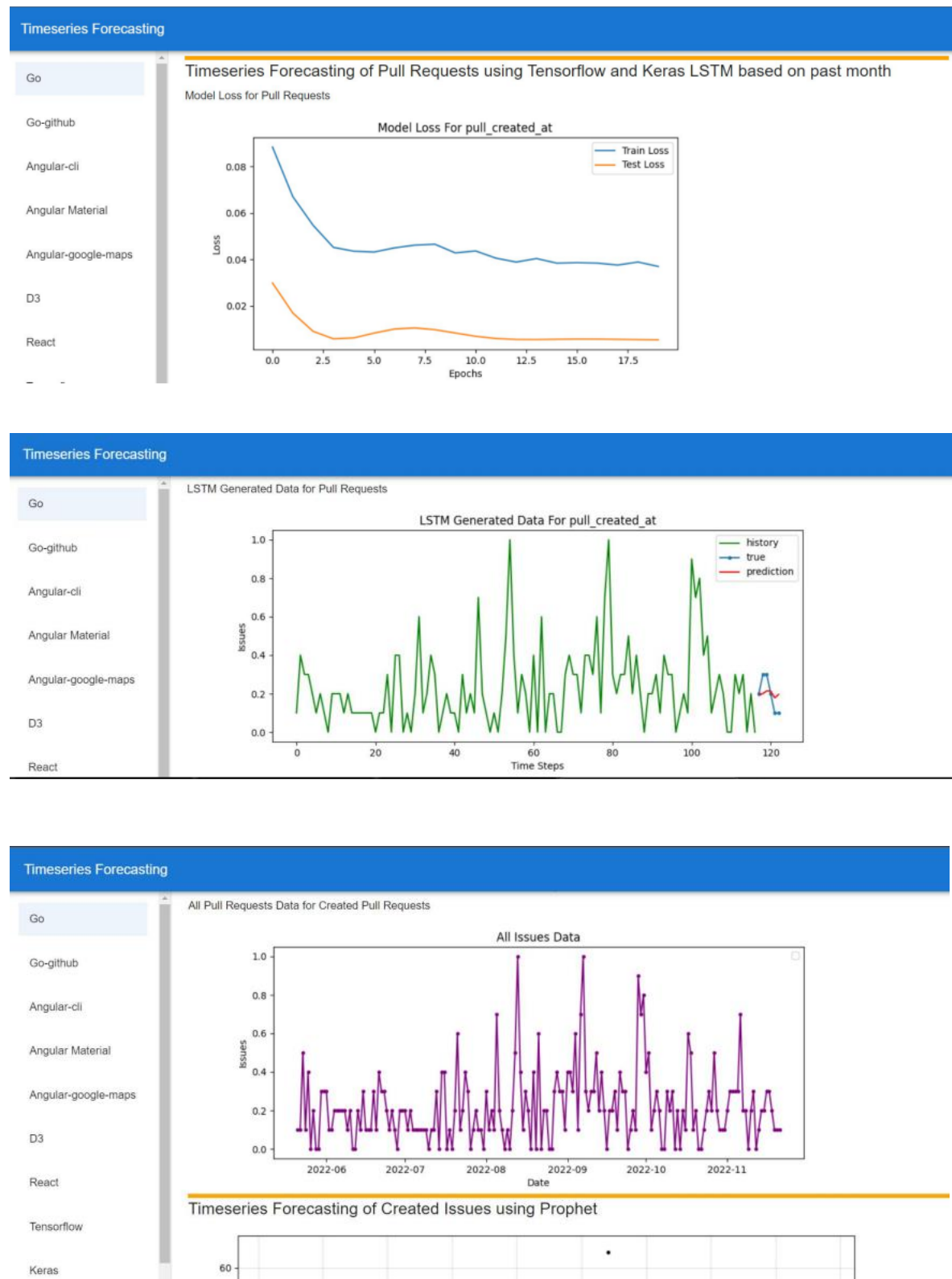
Timeseries Forecasting of Closed Issues using Tensorflow and Keras LSTM based on past month

Model Loss for Closed Issues



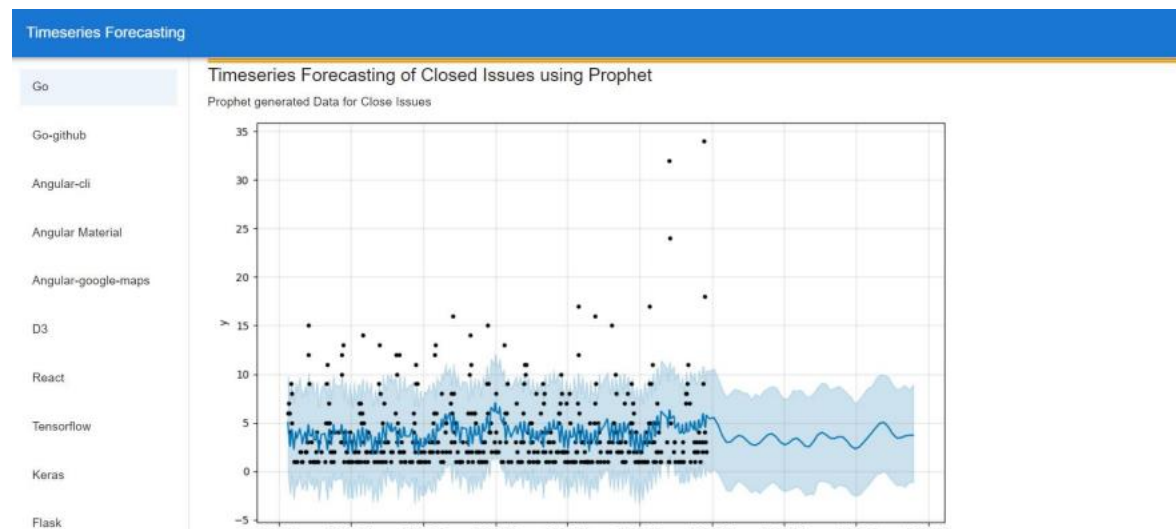
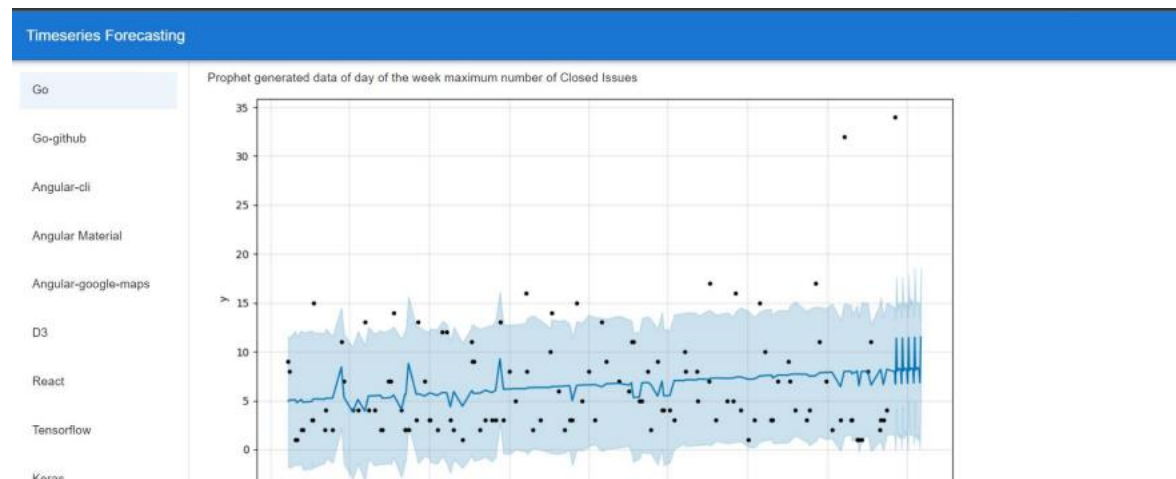
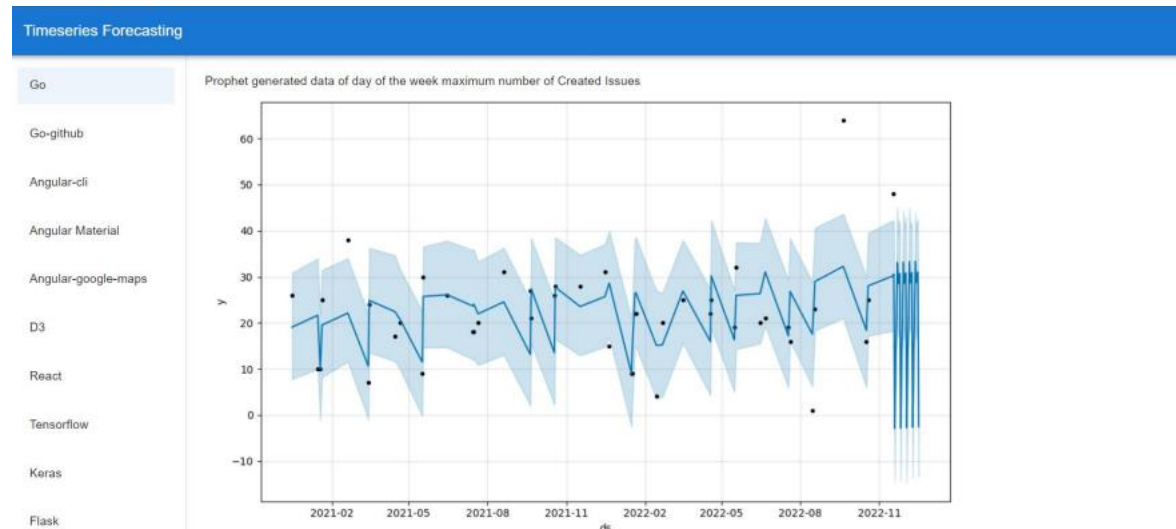


Plot the pulls forecast



Prophet

The day of the week maximum number of issues created



Timeseries Forecasting

Go

Go-github

Angular-cli

Angular Material

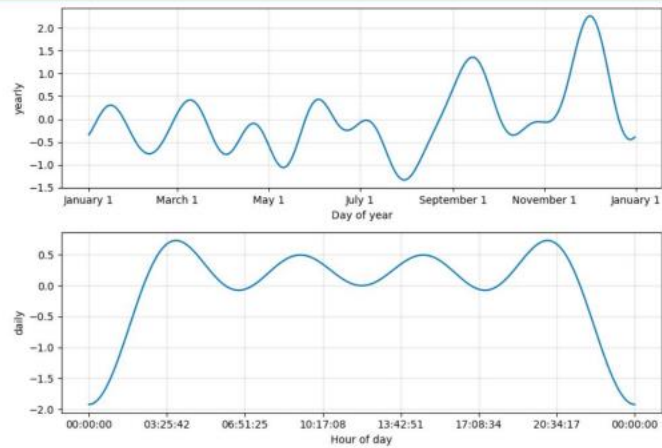
Angular-google-maps

D3

React

Tensorflow

Keras



Timeseries Forecasting

Go

Go-github

Angular-cli

Angular Material

Angular-google-maps

D3

React

Tensorflow

Keras

Flask

Timeseries Forecasting of Pull Requests using Prophet

Prophet generated Data for Pull Requests

