

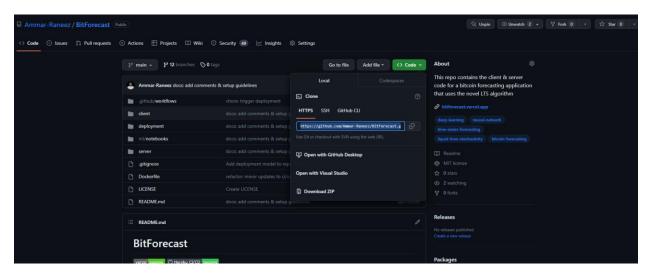
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#### **Application setup**

The GitHub repository is present at http://bit.ly/3HXDtQu with clear and detailed instructions within each README.md file.

- Step 01: Clone the link https://github.com/Ammar-Raneez/BitForecast.git
- Step 02: Create a .env file with the keys required as detailed in the .env.example file.
- Step 03: Navigate to the client directory and run **yarn** to install the dependencies.
- Step 04: Run **yarn start** to run the client application.
- Step 05: Navigate to **localhost:3000** to browse the application.

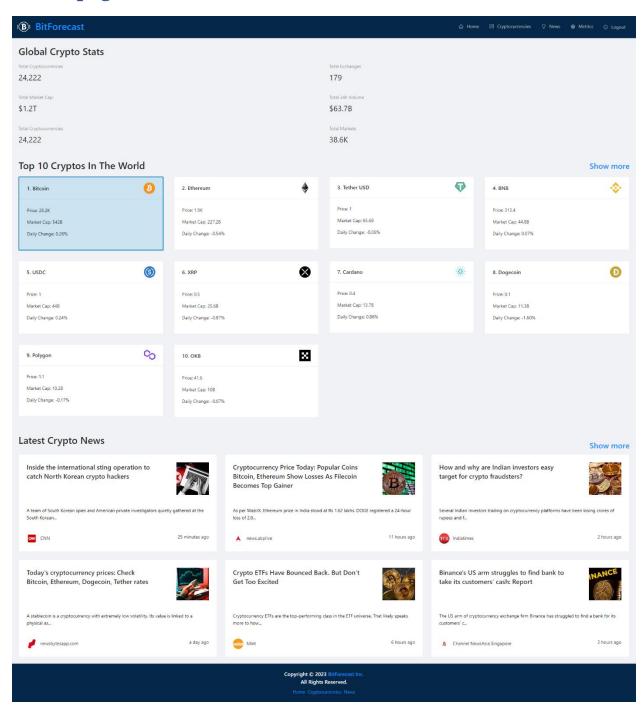


Each individual directory has its own respective setup detailed within the **README.md** file.

The application has been deployed via a CI/CD pipeline that uses Vercel and Heroku to host the React client and the Python server respectively.

It can be located at https://bitforecast.vercel.app/

#### Home page



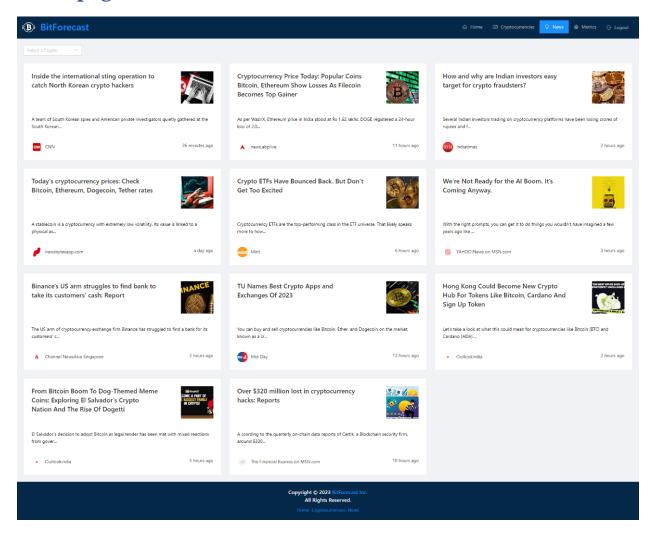
The home page presents users with a brief overview of the current global cryptocurrency market and shows the top coins and some hot news.

Clicking on a particular news article would navigate the user to the main article.

Clicking on a particular coin will navigate the user to the specific coin's page. Bitcoin is highlighted apart from the rest as, at this point in time, only it is capable of being forecasted. Therefore, the author highlighted it to indicate this clearly.

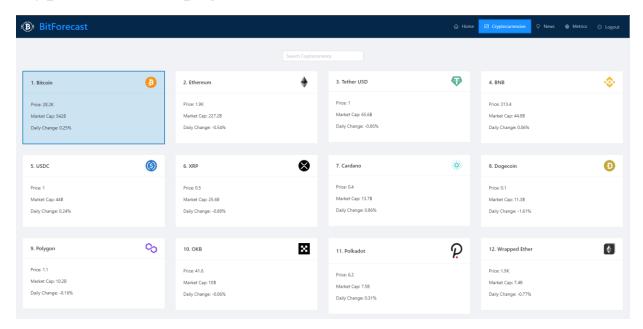
Clicking on "show more" would navigate the user to the cryptocurrencies and news pages respectively.

#### News page



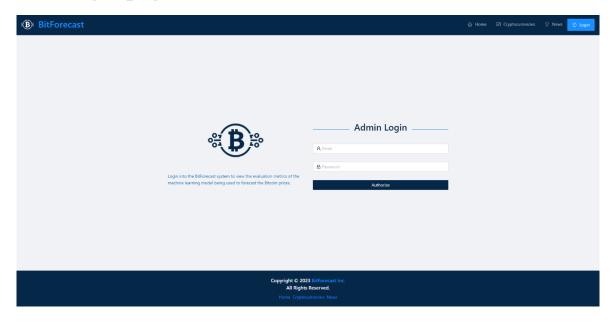
The news page presents articles regarding cryptocurrencies that can be filtered to display only a specific coin's articles. This page is a suitable complement to the application, as a hot news could be the catalyst on whether to sell/buy held assets.

# Cryptocurrencies page



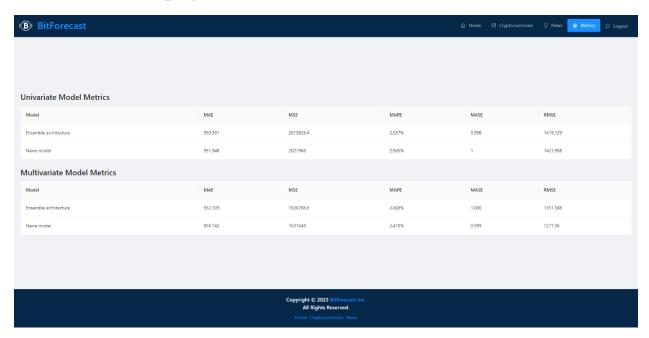
The top 100 coins are presented in this page, where individual coins can be searched for.

### Admin login page



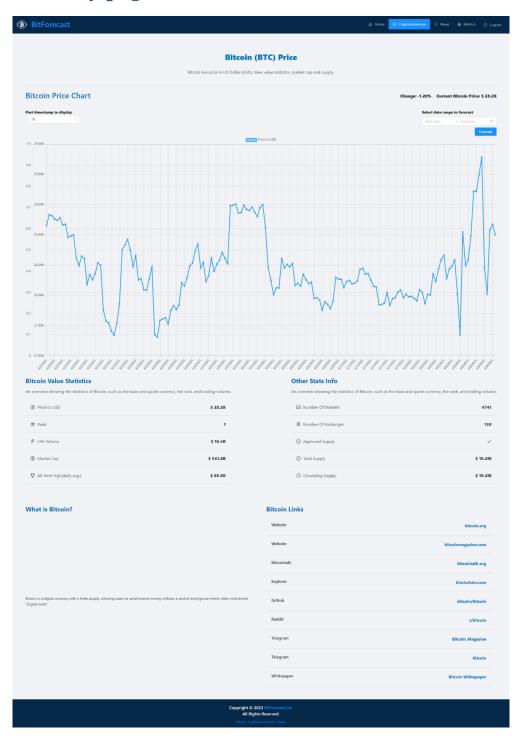
Admins could login through the above portal to obtain some information regarding the current models in use.

# Admin metrics page



The above page is available to logged in admins; it displays the evaluation results of the models currently in use.

### Cryptocurrency page



Each individual coin has the above details page which shows in-depth details of its respective statistics and other information. Additionally, a forecast option is displayed for the Bitcoin details page, where users could attempt the forecast.

### Bitcoin forecasted page



Forecasting Bitcoin produces 3 distinct lines that are combined with the current graph. The upper and lower bounds, and a point forecast. These lines are rendered to demonstrate a range of prices than a single point price that is unlikely to be accurate; therefore, producing a range is more realistic and plausible.