TEAM

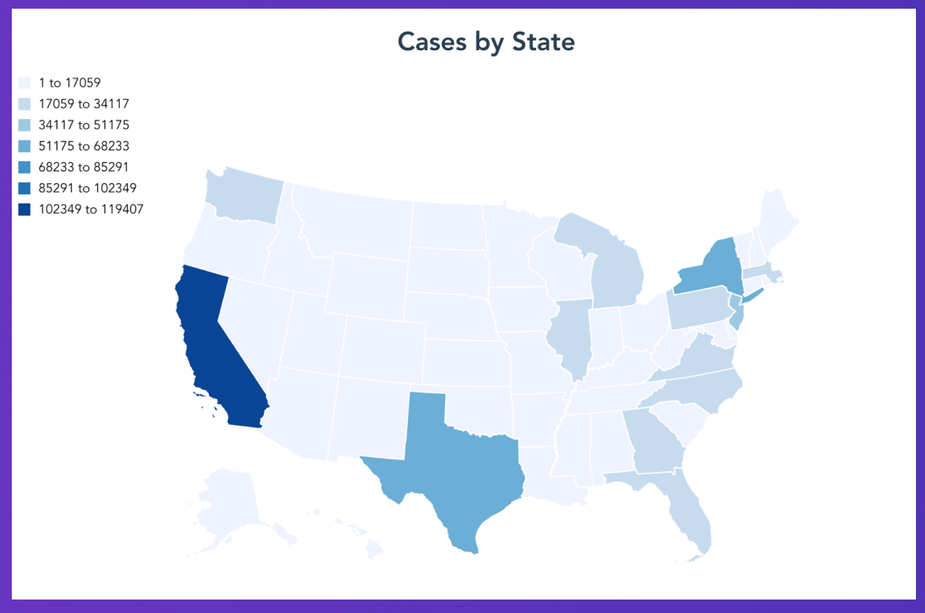
GUNDAM

Meet and Greet

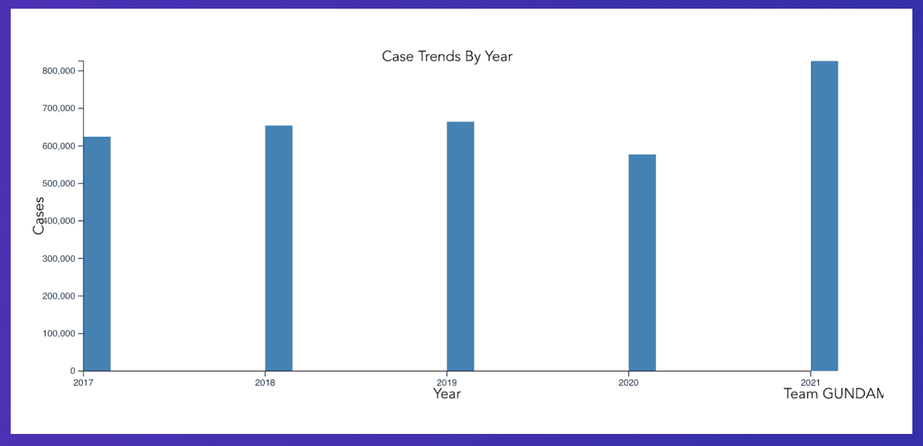
Topic : Understanding the composition of foreign workers pursuing specialty occupations on the United States H1-B visa

You're Invited!

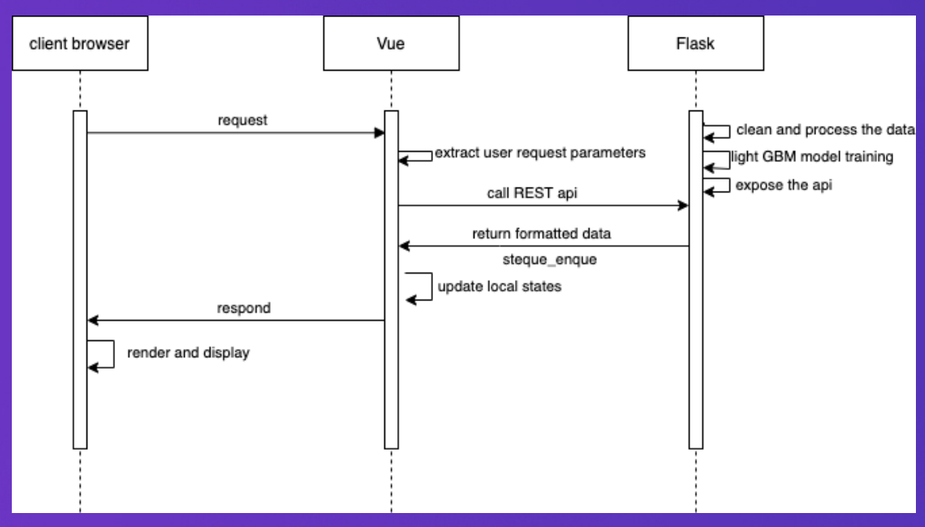
April 22, Thursday
09:00 - 11:00 a.m.
Auditorium 416



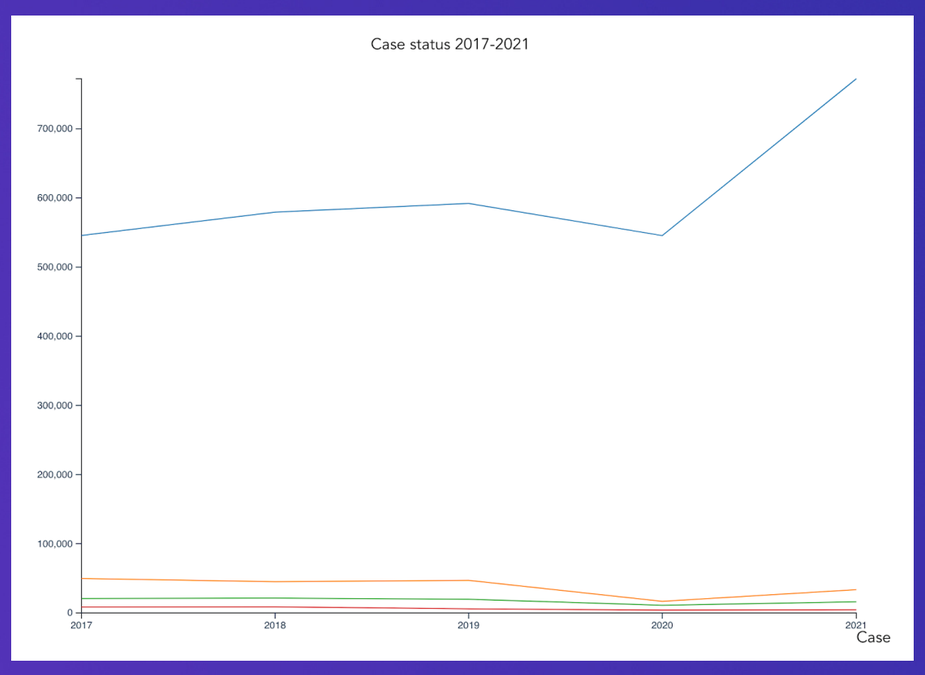
For the model, we choose a gradient boosting decision tree model, LightGBM, which shows improved performance over some of the commonly applied linear models since the data in nonlinear.



We retrieve H1-B application data from 2017 to 2021 from the US Department of Labor. Users will select the attributes they are interested in on our portal page. We propose a set of interactive visualizations to show comprehensive aspects of H1-B statistics to our potential users.



As the sequence diagram shows, we launched the web application in a local testing environment using Flask for the backend and Vue for the frontend. We preprocessed all data, reading them and producing a choropleth chart of applications by state.



Users' request will be passed to our backend REST API, implemented by Python Flask. The API will send the corresponding statistics back to the front-end interface. The user interface will then process the data and render the chart on the newly-directed page, where the users can view and interact with the chart using their cursor.

COMING SOON

JOIN OUR POSTER PRESENTATION AND GET PREDICTION OF YOUR H1-B VISA APPLICATION SUCCESS RATE!

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