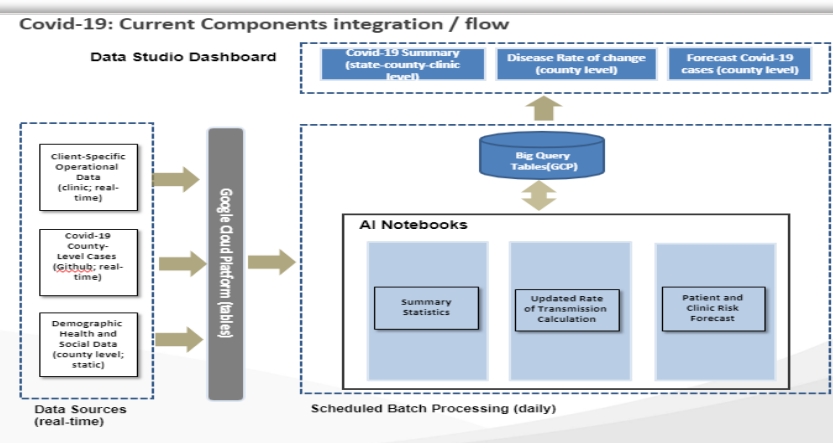


## About Client

The client is a Fortune 500® organization and the largest provider of kidney care services in the U.S. It has served more than 200,000 patients at its outpatient dialysis centers across the United States.

## Client Need

- **Risk assessment and management** of healthcare workers and patients in the context of COVID-19
- Estimate and minimize risk of transmission across **state** and **county** regions



Solution Schematic

## CitiusTech Solution

CitiusTech's team of Data Scientists, Visualization Experts and Business Analyst performed the following activities:

- Developed **statistical predictive models** to forecast number of COVID-19 positive cases
- Estimated **reproduction rate** using Bayes theorem and epidemiology models which are updated in real-time at county level
- Computed **transmission rate** coefficient  $R_0$  based on data across all counties
- Generated '**Patient and Teammate**' risk model based on social determinants of Health at a county-level
- Created interactive visualization dashboards to present the findings in detailed and actionable manner