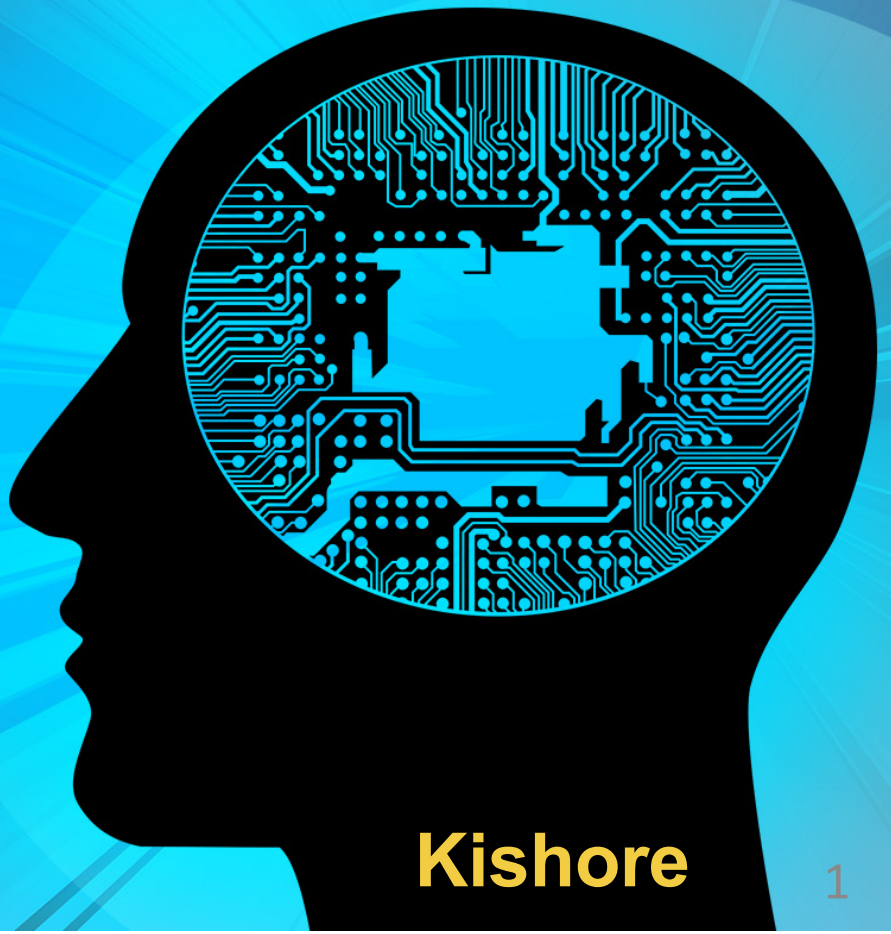
Diagnosing COVID-19 using computer vision



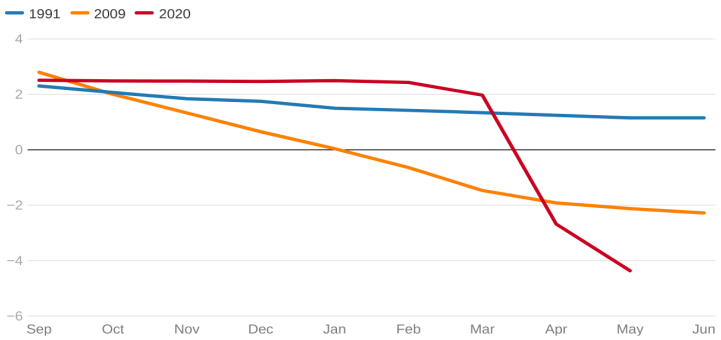
Kishore

Digitizing critical records

- As the world continues to battle COVID-19, we're finding new ways to help each other.
- The COVID-19 outbreak has created major disruptions for business worldwide.

The COVID-19 recession has seen the fastest, steepest downgrades in consensus growth projections among all global recessions since 1990

Consensus forecasts of global GDP (percent)

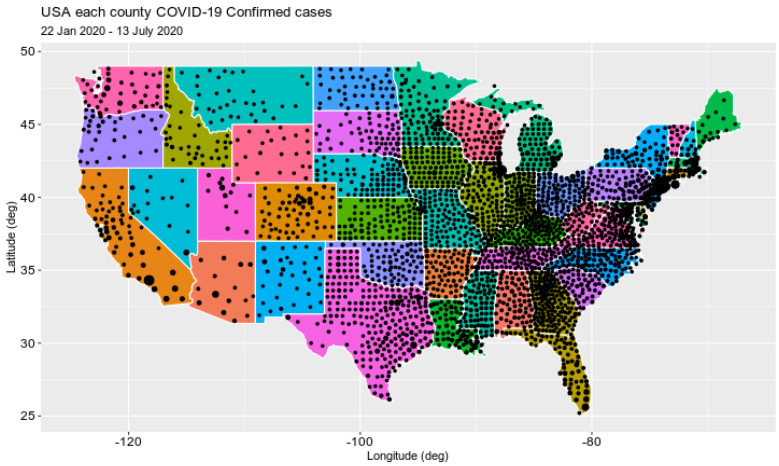


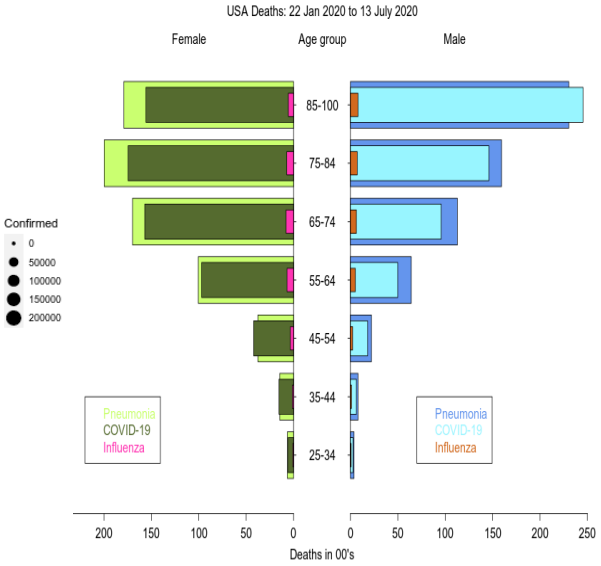
September to December shows forecasts made in the previous year, while January to June shows data for the current year. Data for 1991 are for advanced economies only due to data availability.

Source: Consensus Economics, World Bank

- **Digitized critical clinical records from Kaiser Permanente Healthcare Center**

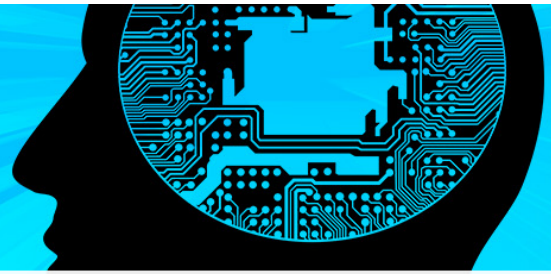
COVID-19 cases



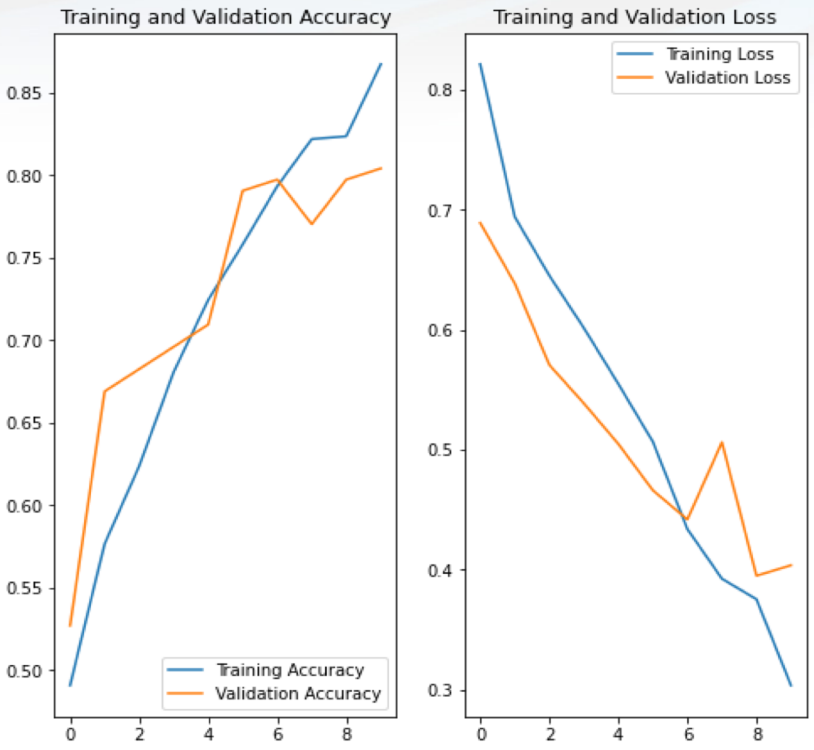


https://preethamvignesh57.wixsite.com/mysite/covid-19

CNN Model Architecture



Model flow



Accuracy: 80.41%

Conclusions:

- **CNN provides a better understanding and prediction of COVID-19 digitized records. It is useful for clinical decision support for Kaiser Permanente healthcare centers.**

Thank
You!

Appendix

Prediction: CT_COVID with 71% CI

CT_COVID

Prediction: CT_NONCOVID with 95% CI

CT_NonCOVID