

In Week 3, the lecture was “Health Check: Automated Sentinel surveillance system and Dashboarding for COVID” held by Professor Rajan Puri, who is Primary Care and Population Health (Occupational Health) of Stanford University.

The start of the lecture was the emerging danger of COVID in the USA. In March of 2020, most of the people in the U.S. did not consider the potential danger of COVID in the U.S. However, unlike most of the people, only Professor Rajan Puri had an intuition about the potential danger because of the case of his cousin in Wohan. Starting from this intuition, he tried to get support from every institution including Stanford and CDC. Furthermore, he started to develop the self health checking system with the Stanford IT team.

After explaining about the motivation to build the system, he explained about the deep learning system classifying the COVID patient by the X-ray image, and how the front-end and the back-end of self health checking system are different. Furthermore, he showed how the data in Stanford is collected, and how the collected data is classified.

Finally, after showing how the self checking system works, he showed the challenges of this enormous project, and lessons learned from this project.