Today, I first learned about the neural network. When I first learned the concept of artificial intelligence three or four years ago, I saw a 3blue1brown video, and it was nice to see it again this time. The animation was well done, which helped me understand the neural network. And I looked into the terms such as bias, activation, cost function, and epoch that make up the neural network. I knew a lot, but it was new that even if the activation function was linear, I could get a non-linearly result if I did feature engineering well. Later, when I heard that I was going to learn feature engineering, I thought I should learn feature engineering well.

Next, I thought about how to classify the MNIST image dataset through the feedforward neural network (multilayer perceptron). A similar process was conducted in exercise, and I got an opportunity to present the code I constructed myself. I focused on how I modified the existing code and how I modified the model. It was a good experience to present in front of many people.

In the after-lunch time, I learned feature engineering. It was impressive that if feature selection was performed well, the accuracy increased and the execution time was shortened, thereby increasing the performance of the model. I also learned that things such as domain knowledge can be included in feature engineering. In addition, there were various feature engineering methods, but it was difficult to understand all of them. When I tried it on my own, it didn't work out well, so I thought I should study while watching the solution.