Name: Nilay Kamar

**Case Presentation Evaluation Form**

Date: 22.07.2020

Speaker: Asst. Prof. Ebru Arısoy

Topic: Introduction to Artificial Neural Networks: Application to Text Processing

*Please rate the presentation on the following scale:*

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| --- | --- | --- | --- | --- | --- |
| ***Area*** | **Excellent** | **Very Good** | **Good** | **Fair** | **Poor** |
| Overall Content | **5** | 4 | 3 | 2 | 1 |
| Quality of Presentation | **5** | 4 | 3 | 2 | 1 |
| Quality of Audiovisual Aids | **5** | 4 | 3 | 2 | 1 |
| Relevance to Practice | **5** | 4 | 3 | 2 | 1 |

*1. Summarize the most important points of the presentation.*

Arısoy started to session with a short brief of artificial neural networks which is a method that inputs are converted to outputs by passing on hidden layers and transforming function. The number of hidden layers and neurons, threshold function, and learning rate can be counted as hyperparameters of neural networks and helpful for model learning. Perceptron is also the most primitive type of ANNs which has only one layer and can be used only for linearly separable values. If the dataset is not linearly separable, a multilayer perceptron should be used for learning. The session was continued with the mathematical details related to the backpropagation algorithm which is an integral part of neural networks, and a playground site which a simulation of neural networks working principle. In the last part of the session, we examined a natural language processing demo view which is about word2vec model. Finally, a model trained by Wikipedia pages texts was examined with examples.

*2. What did you learn from this presentation that you did not know before?*

I did not know a mathematical representation of neural networks so much, therefore this part was helpful for me.

*3. Other comments/suggestions:*

If a high-level information about our BDA program was given to the presenter, sessions may be more efficient. Since all presenters ask basic questions such as “Did you take a Python lesson?”, I want to give this feedback. Finally, it was very well Wednesday once again!