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Neural Network optimisation

Friday 25 October 2019 15:00 (3 hours)

Modern neural network architecture reflects the complexity of the problem. So those may become quite complex and computationally heavy. Usually, there are plenty of different meta-parameters to tune: number of layers, activation function, number of neurons per layer, drop-out rate, etc. There many different methods and tools that aimed at tuning those parameters for various reasons - accuracy, memory footprint or inference rate. This mini-course will cover the basics approaches for neural networks optimizing including hyperparameter optimization, network architecture search and Bayesian Neural Network perspective. Practical hands-on sessions will follow the theoretical introduction.

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Session Classification: Organization