

Instructions

1. Write a paragraph on loss functions (<https://www.youtube.com/watch?v=QBbC3Cjsnjg>)
2. Write a paragraph on different optimizers
(<https://www.youtube.com/watch?v=mdKjMPmcWjY>)
3. Resource 1 : Batch Processing (<https://www.youtube.com/watch?v=Y-zswp6Yxf0>)
4. Resource 2 : Overfitting in Deep Learning
(<https://www.youtube.com/watch?v=BqzgUnrNhFM>)
5. Resource 3 : Regularization (<https://www.youtube.com/watch?v=VqKq78PVO9g>)
6. Resource 4 : L1 and L2 regularization in Deep learning
(<https://www.analyticssteps.com/blogs/l2-and-l1-regularization-machine-learning>)
Regularization can be applied everywhere in Machine learning and is not restricted to deep learning. Read it carefully as a theoretical knowledge will help in solving the task.
7. Resource 5 : Dropout (<https://www.youtube.com/watch?v=lcl8ukTUEbo>)
8. Resource 6 : Batch Normalization (<https://www.youtube.com/watch?v=DtEq44FTPM4>)
9. Resource 7 : Batch Normalization as reducing the covariant shift
(<https://www.youtube.com/watch?v=nUUqwaxLnWs&t=300s>)
10. Use what you learned in the previous week and in the above mentioned resources to implement task 5.

Deadline : 3 november

Have fun!!!

