Basic Multiclass Regression :
https://towardsdatascience.com/multiclass-classification-algorithm-from-scratch-with-a-project-in-python-step-by-step-guide-485a83c79992

Advanced Content about MultiClass :
https://scikit-learn.org/stable/modules/multiclass.html

Different Cost Functions :
- https://towardsdatascience.com/machine-learning-fundamentals-via-linear-regression-41a5d11f5220
- https://www.analyticsvidhya.com/blog/2021/02/cost-function-is-no-rocket-science/
- For more information : https://stats.stackexchange.com/questions/154879/a-list-of-cost-functions-used-in-neural-networks-alongside-applications

Optimization Algorithms for Neural Networks:

- https://towardsdatascience.com/optimization-algorithms-in-deep-learning-191bfc2737a4

Note: Please do spare some time to read this entire article
https://www.coursera.org/learn/deep-neural-network?specialization=deep-learning

Normalization

- Deep Learning AI lecture : C2W1L09, C2W3L04-C2W3L07
  - https://www.youtube.com/watch?v=tNIpEZLv_eg
- Relevant articles
  - https://medium.com/@urvashilluniya/why-data-normalization-is-necessary-for-machine-learning-models-681b65a05029
  - https://machinelearningmastery.com/batch-normalization-for-training-of-deep-neural-networks/

Optimizers

- Deep Learning AI : C2W2L01-C2W2L09
  - https://www.youtube.com/watch?v=4qJaSmvhxi8
- Relevant articles
  - https://towardsdatascience.com/deep-learning-optimizers-436171c9e23f
  - https://towardsdatascience.com/optimizers-for-training-neural-network-59450d71caf6

Refer the below website for better understanding of optimizing processes and optimizers. You can try different learning rates for different cost functions and optimizers at real time.

- https://www.deeplearning.ai/ai-notes/optimization/

(Katanforoosh, Kunin et al., "Parameter optimization in neural networks", deeplearning.ai, 2019.)