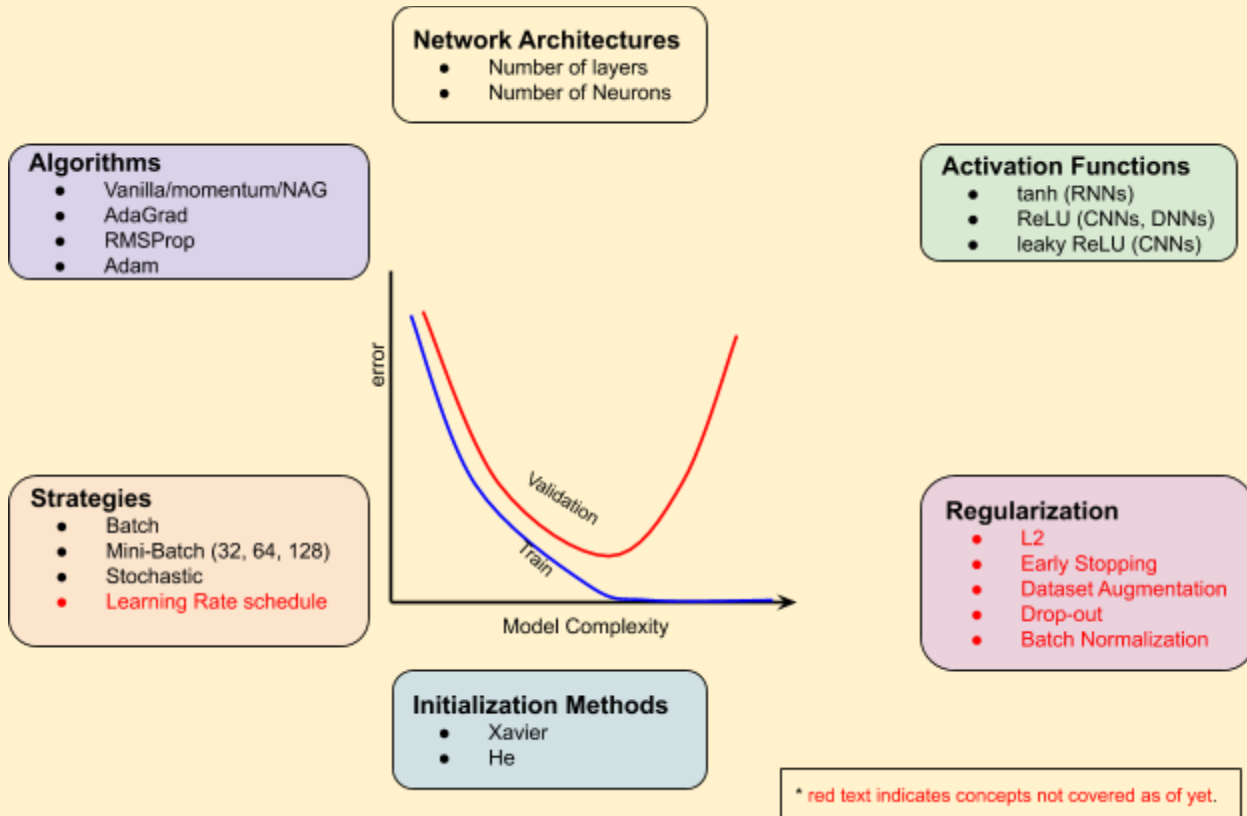


### A detour into hyperparameter tuning

Is the concept of train/validation error also related to hyperparameter tuning?

1. The following image shows us all the variables under our control when configuring a DNN



2. To determine the ideal combination of variables when configuring a DNN, it is recommended to analyse the curves shown in the figure above
3. We need to minimise the difference between training and validation error based on monitoring the curves plotted above.
4. Parameters are variables you learn from the data, i.e. weights, biases etc
5. Hyper-Parameters are variables that you figure out during experiments on the model, by analysing the error and other evaluators.