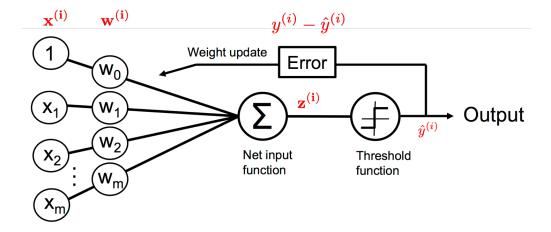
Final Project

For the small classic dataset Iris (https://archive.ics.uci.edu/dataset/53/iris) from UCI machine learning repository, consider to use a simple perceptron model to build a classifier for evaluation. We use all four parameters (sepal length, sepal width, petal length, petal width) for model features to classify two species (Setosa, Versicolor).



- 1. Use IEEE 754 binary16 format for all the numbers in the model to build a classifier and evaluate the performance. (for both training and inference)
- 2. Use signed 2's complement fixed-point format for all the numbers in the model to build a classifier with comparable performance to the classifier in 1. List the format of all parameters used in your model. (for both training and inference)
- 3. Optimize the model to get the best speed for model inference.
- 4. Optimize the model to get the smallest cost for model inference.