CEP Course on Deep Learning for NLP
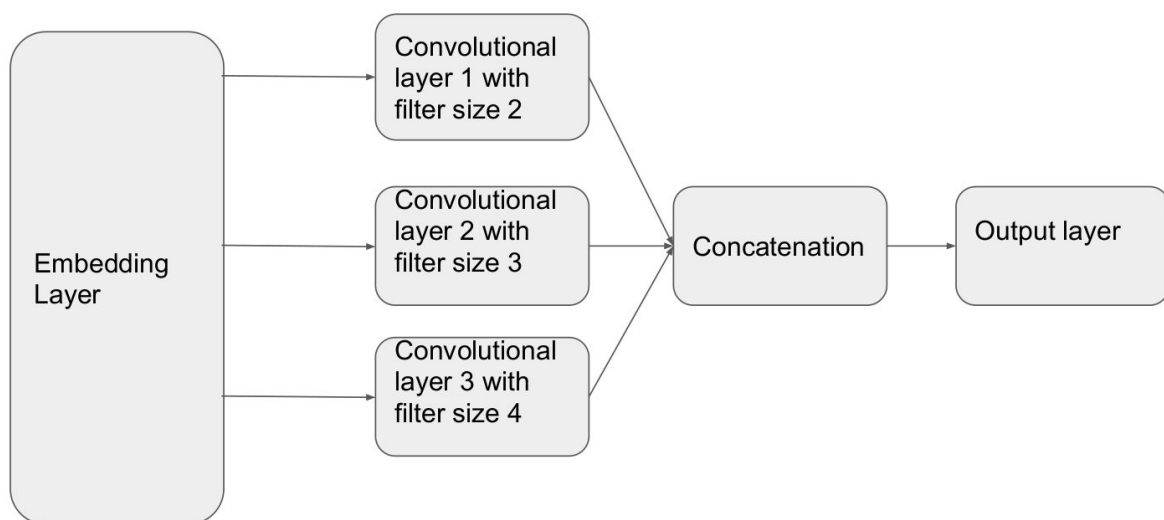
Assignment on Sentiment Analysis

Task Description
Build a sentiment analyzer using convolutional neural network which use multiple parallel convolutional layers to extract features. Train the system on train set, optimize parameters on file development set to minimize cross entropy loss, and finally evaluate the system on test set.

Input: tweet

Output: sentiment (positive, negative, and neutral)

Architecture: Use the following architecture:

Dataset:
SemEval 2013 dataset. It contains tweets written in English and are labelled for 3 classes: positive, negative, and neutral.

Experiment and Evaluation:

Use any pre trained embeddings. Train your model for 10 epochs and show the confusion matrix, accuracy, precision, and recall of your system on test data.