DL ASSIGNMENT 7

Q1) speech recognition, machine translation, image captioning and question answering are applications of sequence to sequence rnn. Sequence to vector and vector to sequence also have same applications with half the usecases.

Q2) RNN input must have 3 dimensions (batch size, number of steps, number of features).

Q4) LSTM architecture can be used to forecast using univariate time series.

Q5) vanishing and exploding gradients.

Q6) inputs go through three separate sigmoid functions. Finally, these are concatenated to produce final output while having tanh functions in the middle in two of the input routes after sigmoid. LSTM has a cell, input gate, output gate and forget gate.

Q7) text is one directional.

Q8) CNN plus RNN consisting of GRU layers.