**Bottom Top Approach Of Learning**

1.Text Preprocessing Level 1- Tokenization,Lemmatization,StopWords,POS

2.Text Preprocessing Level 2- Bag Of Words, TFIDF, Unigrams,Bigrams,n-grams

3.Text Preprocessing- Gensim,Word2vec,AvgWord2vec

4.Solve Machine Learning Usecases

5.Get the Understanding Of Artificial Neural Network

6.Understanding Recurrent Neural Networks, LSTM,GRU

7.Text Preprocessing Level 3- Word Embeddings, Word2vec

8.Bidirectional LSTM RNN, Encoders And Decoders, Attention Models

9.Transformers

10.BERT

**1. Text Preprocessing Level 1**

**Tokenization, Stemming & Lemmatization, Stop Words, POS**

**1.1 Tokenization : I am a boy : I, am, a, boy**

**1.2. Stemming : History,Historious, Historical : Histori**

**1.2.2 Lemmatization : History,Historious, Historical : History (meaningful)**

**1.3 Stop Words : Unimportant word - article, preposition, pronoun etc**

**1.4 POS : I: proun, Karim: noun, the :DT**

**2.Text Preprocessing Level 2**

**Bag Of Words, TFIDF, Unigrams, Bigrams, n-grams**

