## Deep Dive Module 4

### Deep Dive

#### RNNs

- Mathematical understanding of RNN and its variants
  <a href="https://www.geeksforgeeks.org/mathematical-understanding-of-rnn-and-its-variants/">https://www.geeksforgeeks.org/mathematical-understanding-of-rnn-and-its-variants/</a>
- ☐ Simplified Math behind Complex LSTM equations https://medium.com/@leenabora1/simplified-math-behind-complex-lstm-equations-66cff0d52d78
- ☐ Understanding GRU Networks <a href="https://towardsdatascience.com/understanding-gru-networks-2ef37df6c9be">https://towardsdatascience.com/understanding-gru-networks-2ef37df6c9be</a>

#### **RNN** variants

 Attention Mechanism in Deep Learning <a href="https://www.analyticsvidhya.com/blog/2019/11/comprehensive-guide-attention-mechanism-deep-learning/">https://www.analyticsvidhya.com/blog/2019/11/comprehensive-guide-attention-mechanism-deep-learning/</a>

#### **Advanced NLP Architectures - Transformers**

□ Dissecting BERT - a 3 part blog <a href="https://medium.com/dissecting-bert">https://medium.com/dissecting-bert</a>





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Thank you

