Natural Language Inference

1. Framing the question:

a. Given a pair of sentences our objective is to figure out if the second sentence entails, contradicts, or gives no information (neutral) about the first.

b. We begin by doing a review of previously established research as well as study the topics discussed. Since this was the first time I was doing an ML project I had to start from the very basic. While studying I have intentionally held back from delving too deeply into the math. I made this decision considering the fact that I am doing a degree in Math so most of it would be taught formally and would save a lot of time.

2. Implementing the model:

a. For the toolkit I chose Keras. It's built on TensorFlow and seemed beginner-friendly.

b. We encode the sentence using a BiLSTM layer. c. Then pass this sentence encoding through the neural network.

3. Model testing:

a. We test the model on new examples and also compare it with previously published models.