**Project proposal**

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Topic: Creating Natural Language Inference model for determining how pairs of English sentences are related (neutral/contradiction/entailment).

Deployment: This model might be heavy, so I’ll need to consider my options based on its size by the end. For the beginning, let’s assume it will only run locally.

Running the model: The model will take as input csv file with 2 columns: “sentence1” and “sentence2”, and then it will return the same csv file with a new column named “nature” which contains one of three options: “neutral” /”contradiction” /”entailment.”   
If I’ll have time, I’ll try to extend the output to represent the connection between key words in the sentences, which determine the nature of the sentences.

Example:

Sentence1: “The kids are frowning”

Sentence2: “Children smiling and waving at camera”

Nature: contradiction

Extending the project: I’ll show that the word ‘smiling’ has the opposite meaning of the word ‘frowning’ and ‘kids’ has similar meaning to ‘children’.

Why I chose this project? I have recently graduated Data Science program (Boot Camp) and this is a great way to implement what I learnt.

Programming language & tools: Python using Machine Learning / Deep Learning model.