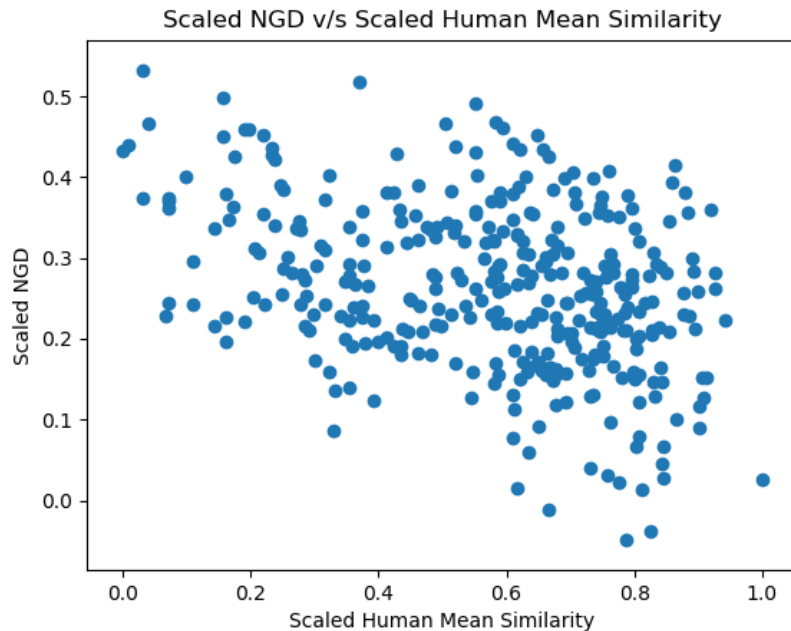# CS786 Assignment 3

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Question 1

The first question can be found in q1.py . NGD calculation code can be separately found in ngd.py . The NGD formula used in the code was as described in wikipedia page . I have used N, number of web pages indexed by google as 25270000000 , which is number of web results by searching word 'the' . The get request code can be found in q1.py as searchCount function . The NGD distance result of all word can be found in output2.csv .

Question 2

The code for q2 can be found in q2.py . Graph between human similarity judgment vs NGD is plotted using matplotlib.

Scaled NGD v/s Scaled Human Mean Similarity

Question 3

The code for third question can be found in q3.py, from the available pre trained models available on word2vec , I have used similarity to calculate the word distance .