

1. Open 'Preprocess.ipynb', run all cells. It uses the 'wikihowAll.csv' dataset and generates the stratified dataset. Then it splits the stratified dataset into passages less than 512 words, passages between 512 and 1024 words and passages between 1024 and 2048 words. It saves the data as 'WikiHow\_sample\_leq512.csv', 'WikiHow\_sample\_in1024.csv' and 'WikiHow\_sample\_in2048.csv'.
2. Open 'T5.ipynb', run all cells. It uses 'WikiHow\_sample\_leq512.csv', 'WikiHow\_sample\_in1024.csv' and 'WikiHow\_sample\_in2048.csv' datasets and gives summaries to all passages using T5-small model. It saves the result to 'WikiHow\_sample\_leq512\_withsummary.csv', 'WikiHow\_sample\_in1024\_withsummary.csv' and 'WikiHow\_sample\_in2048\_withsummary.csv'.
3. Open 'Experiment1&2&3.ipynb', run all cells. This file calculates ROUGE1, ROUGE2, ROUGE L and ROUGE Lsum scores and the correlation between scores and passages length.
4. Open 'Experiment4.ipynb', run all cells. This file calculates BM25 scores for each summary and counts the number of summaries gained higher BM25 scores generated by each model.