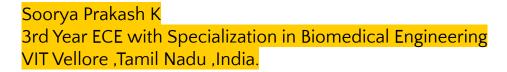
NLP AstraZeneca HAckathon





• This Task is intended to classify generic documents.

 Word Embedding will be not be a best feature because of technical terms that the model may encounter.

 There won't be any significant difference in the words used in the heading and section so embeddings is not a good choice.

How a Human will think to do this task

Factors human will consider:

- The Difference in the word and the character length between the above and below sentences.
- Capitalized or Not.
- New Lines used between the Sentences.



Generation of Features according to thinking of human.

ir	dex	lines	char_length	no_of_words	index_	caps	space	next_char	next_words	next_next_char	next_next_words	next_caps	prev_char	prev_words	prev_prev_char	prev_prev_words	label	label2
0	0	Symphyotrichum lateriflorum	27	2	0	0.037037	1	0	0	37	5	0.000000	0	0	0	0	1.0	0.0
1	1	NaN	0	0	1	0.000000	0	37	5	0	0	0.054054	27	2	0	0	0,0	0.0
2	2	From Wikipedia, the free encyclopedia	37	5	2	0.054054	2	0	0	32	5	0.000000	0	0	27	2	0,0	0.0
3	3	NaN	0	0	3	0.000000	0	32	5	0	0	0.062500	37	5	0	0	0.0	0.0
4	4	Jump to navigationJump to search	32	5	4	0.062500	2	0	0	27	2	0.000000	0	0	37	5	0.0	0.0

Process

 6 Wikpedia documents were taken and features were generated for them.

 Dataframe of documents were concatenated and fed to XGBoost Model to classify whether the sentence is heading or section.

Output File is Generated.

Implementation Procedure

Open astra_pipeline and change the input and the output file names. Tadah!

Task Accomplished: Classifying Headings and Section in a document.