Summarization :

To get the summary of the paper v perform a multi level summarization (2 level ). The model which v used is a BART model specifically facebook/bart-large-cnn developed by facebook.

* In the first level of summarization we take the paper page by page and extract the summary so that v wont lose important information keeping the all the default parameters. Num\_beams=4 and early stopping as true. Beam search is a heuristic search algorithm that explores a graph by expanding the most promising nodes in a limited set. In the context of text generation, it keeps track of multiple candidate sequences (beams) at each step and selects the top num\_beams sequences based on their probabilities.  Early stopping = trueThe generation process will stop as soon as all beams have generated the end-of-sequence token. This can make the generation process faster and prevent the model from generating unnecessarily long sequences.
* In the second level v take the summary of the pages and concatenate them send it to the model again but with different parameters num\_beams=8 and early stopping= false .The reason is that since all information extracted is important from the level1 to reduce the information loss .