

## RESULT, ANALYSIS AND OBSERVATIONS

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### Link for Amazon Fine Food review dataset -

s3://document-summarization-using-lsa-texttrank/food-reviews-dataset/

### Link for Amazon review dataset -

<s3://document-summarization-using-lsa-texttrank/amazon-reviews-dataset/>

Link for the output files:

### LSA -sentences output with Amazon Fine Food Review Dataset

[s3://document-summarization-using-lsa-texttrank/Outputs\\_LSA\\_Food\\_Review\\_Dataset/](s3://document-summarization-using-lsa-texttrank/Outputs_LSA_Food_Review_Dataset/)

### LSA -sentences output with Amazon Review Dataset

s3://document-summarization-using-lsa-texttrank/Outputs\_LSA\_Amazon\_Review\_Dataset/

### LSA -words output with Amazon Fine Food Review Dataset

s3://document-summarization-using-lsa-texttrank/Outputs\_LSA\_words\_Food\_Review\_Dataset/

### LSA -words output with Amazon Review Dataset

s3://document-summarization-using-lsa-texttrank/Outputs\_LSA\_words\_Amazon\_Review\_Dataset/

### TextRank output with Amazon Fine Food Review Dataset

s3://document-summarization-using-lsa-texttrank/Outputs\_TextRank\_Food\_Review\_Dataset/

### TextRank output with Amazon Review Dataset

s3://document-summarization-using-lsa-texttrank/Outputs\_TextRank\_Amazon\_Review\_Dataset/

### Github Link for the full project along with datasets and the output folders-

<https://github.com/kdivyarsha/text-summarizer>

Below are the logs observed for the data file B0033YXSHW.txt

Experiment Number	Parameters Chosen	Results
1	LSA Extraction of summary from sentences	[Concept 1][Sentence 1] : [' It had flakes, oats and these chewy, small, square pear things that were dusted with chocolate but turning white'] [Concept 1][Sentence 2] : [' I even tried it as a dry snack and after my first bite, no more'] [Concept 1][Sentence 3] : [' I haven't picked it apart to see what it is, because I don't much care, and it puts me off of buying any more'] [Concept 1][Sentence 4] : [' Somehow, I don't think it's going to be much of a success'] [Concept 1][Sentence 5] : [' More important, there's something in it that feels like large grit']

2	LSA Abstraction of summary from keywords	[Concept 1] :['dusted', 'flake', 'turning', 'white', 'thing']
3	TextRank Number of Iterations :10 Number of Sentences : 10	Rank: 1.23 Sentence : [' It had flakes, oats and these chewy, small, square pear things that were dusted with chocolate but turning white']
4	TextRank Number of Iterations : 20 Number of Sentences : 10	Rank: 1.44 Sentence : [' It had flakes, oats and these chewy, small, square pear things that were dusted with chocolate but turning white']
5	TextRank Number of Iterations : 30 Number of Sentences : 10	Rank: 1.48 Sentence : [' It had flakes, oats and these chewy, small, square pear things that were dusted with chocolate but turning white']
6	TextRank Number of Iterations :35 Number of Sentences : 10	Rank: 1.49 Sentence : [' It had flakes, oats and these chewy, small, square pear things that were dusted with chocolate but turning white']

### **Analysis from the log file:**

As we can clearly observe, the rank for the output increases as the number of iterations in textrank increases. This means as we run for a higher number of iterations, the summary output given by the text rank becomes more accurate and close to the human summary of text.