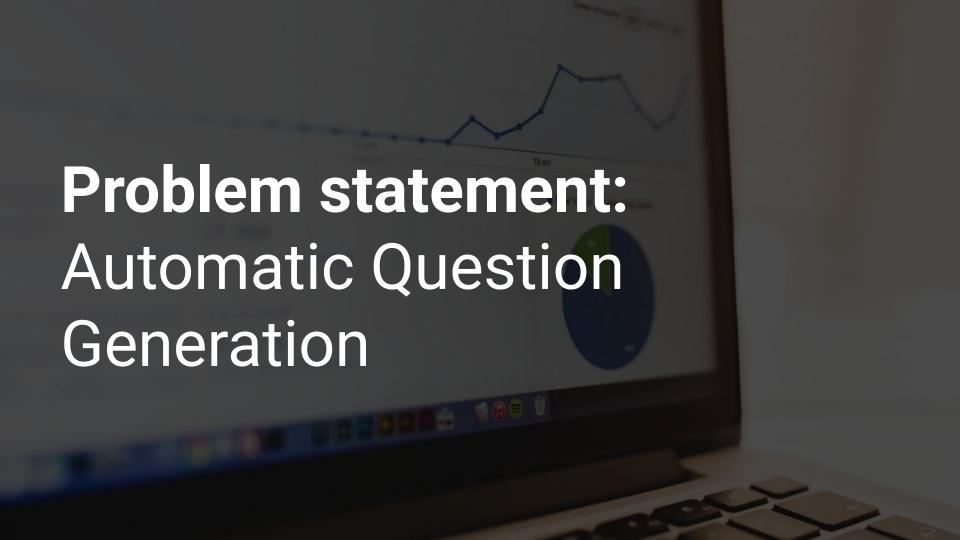
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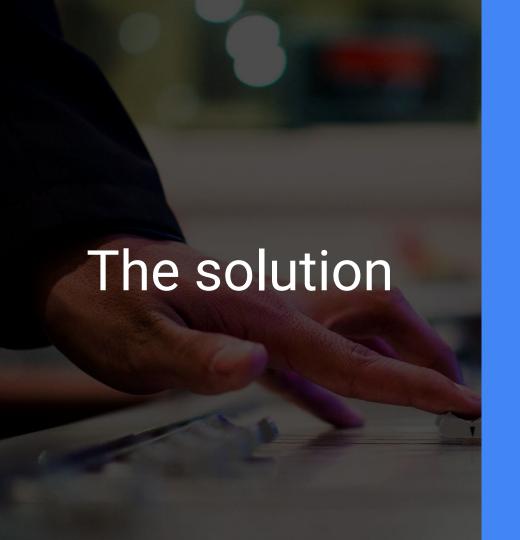
Gaand Maar Lenge



The problem

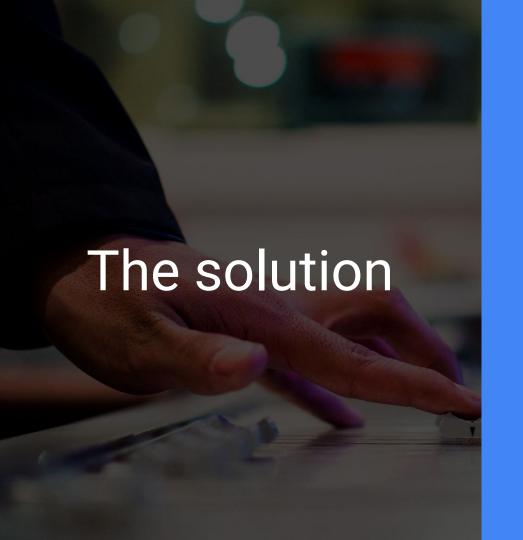
You are given a set of books, you need to generate the questions out of that for different grades and levels. Possible types of question can be any of the following:

- Fill in the blanks
- Question that starts with W/H
- MCQ type questions
- Generic questions (genericity depends on the subjects)



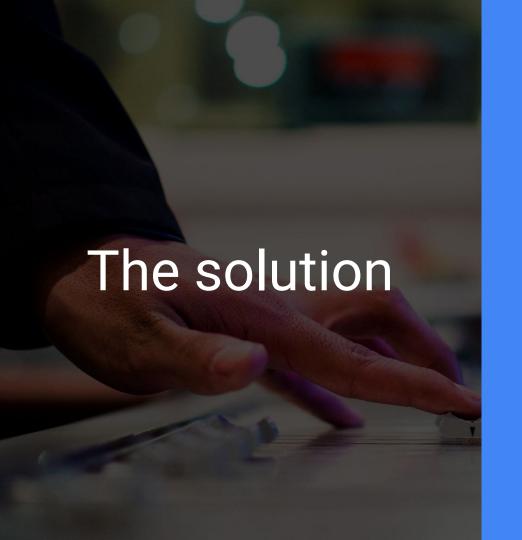
PREPROCESSING

The data is firstly preprocessed to remove incomplete sentences, new line gaps and figures.

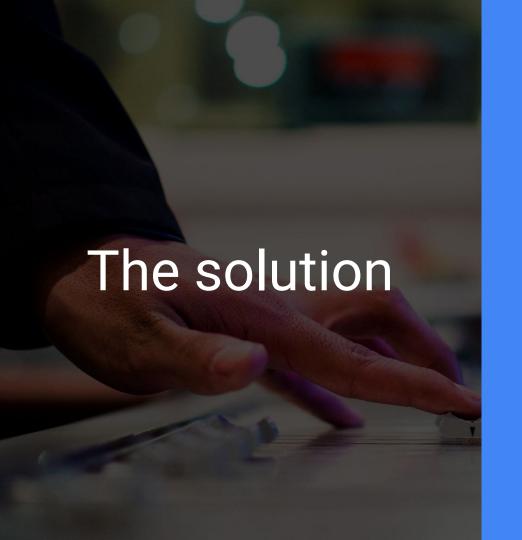


SENTENCE SELECTION

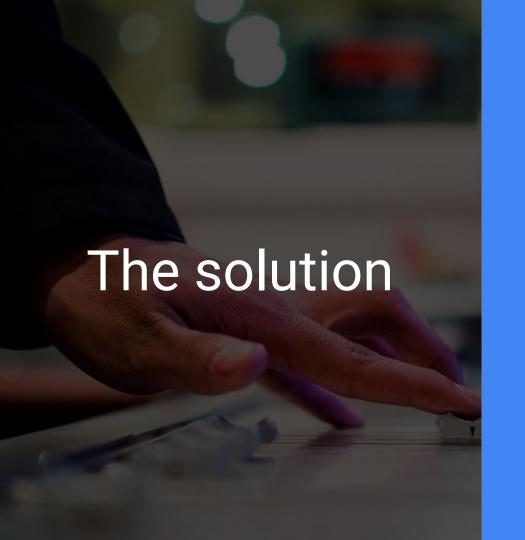
Weighs relevance of each sentence in the context by generating a TF/IDF score, and using heuristics like presence of nouns / pronouns /adverbs and length of sentences.



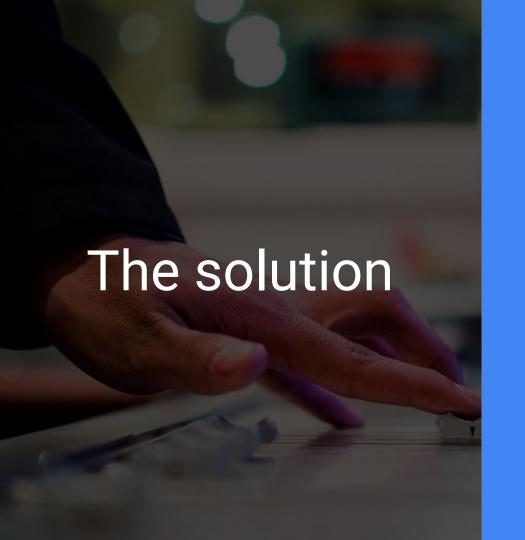
Rule based approach. Select sentences which have a pattern of Parts of Speech occuring and replace the word which gives the most sensible question.



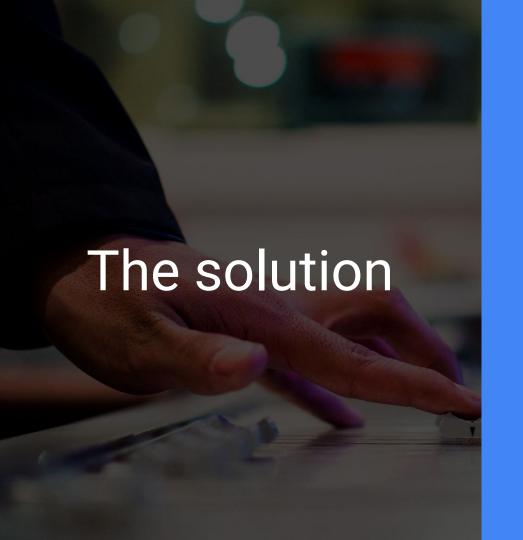
Named Entity Recognition.
The tokens within the sentences are grouped into more abstract classes.



After being classified into POS, the Named Words are then chosen on random to replace with the blank. This generates a better result than only POS.



After being classified into POS, the Named Words are then chosen on random to replace with the blank. This generates a better result than only POS.



WH Questions Generation-1

The n-gram Language Model is generated from the training set. A first n-gram is picked by a random choice from a set. Next a random number between 0 to 1 is generated and the corresponding n-gram is picked up till a question mark is encountered.

W/H Questions: Approach 1

- Overgenerate and then rank the questions through a regression model to find the most optimal questions out of those.
- Part 1: Overgeneration
 - First, take a complicated sentence and change it into simpler, derived sentences using lexical items, syntactic structures, compression, etc.
 - Then, take the derived sentences and use a rule based approach to convert them into W/H
 questions.

W/H Questions: Approach 1

- Part 2: Ranking questions using a regression model
 - We can create datasets through teachers to rank the questions, and run it on our generated questions to predict a rank.
 - Then we can select the top questions based on those predictions.

MCQ Type: Approach 1

- Part 2: Ranking questions using a regression model
 - We can create datasets through teachers to rank the questions, and run it on our generated questions to predict a rank.
 - Then we can select the top questions based on those predictions.

W/H Questions: Approach 3

- Specific patterns of a POS sequence are pre-loaded.
- Sentences which have that combination are selected and the question is generated substituting the given Part of Speeches from the sentences words.

The team

Answer the question, "Why are we the ones to solve the problem we identified?"





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Ronny Reader

Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor



Abby Author

Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor



Berry Books

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Milestones

Show where you are in the process and what's left to tackle

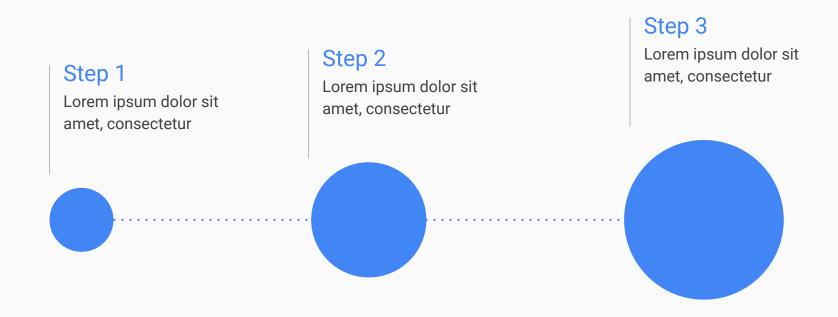


Appendix

Show the audience you anticipated their questions.

Leave room for Q&A, but use the Appendix as a way to show that you both thought about those questions and have solid answers with supporting information. Let the audience test their understanding of the problem and the solution you've outlined questions give them a chance to talk themselves into your approach, and give you a chance to show mastery of the subject.

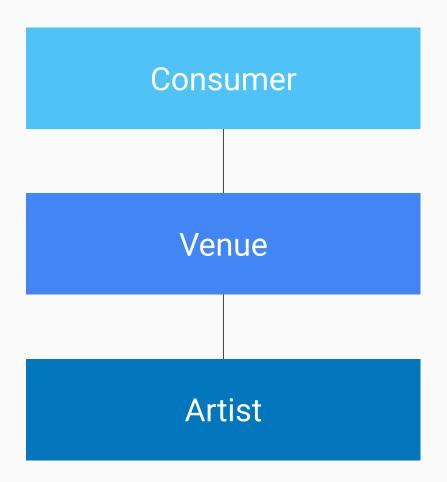
How it works





Revenue model

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Why now?

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