

# Text Summarization and Question Answering System for COVID-19 Data

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## PART I

*An unsupervised extractive text summarization system is developed that generates a summary for a given document.*

*First of all, the document is pre-processed by removing the stop-words. Summary is generated based on weights of sentences using different features.*

*The following features have been added to the system:*

- (a) cue phrases for COVID data*
- (b) numerical data*
- (c) Heading match (Number of words matching the heading)*
- (d) Sentence Length*
- (e) Sentence Position*
- (f) Word Frequency*
- (g) Upper case*
- (h) Proper Noun*

*Total score is calculated from all these features. And only those sentences are selected which have a score value above 1.2 times the average score (threshold).*

The Malaria Vaccine Implementation Programme in Africa: clarifying misperceptions

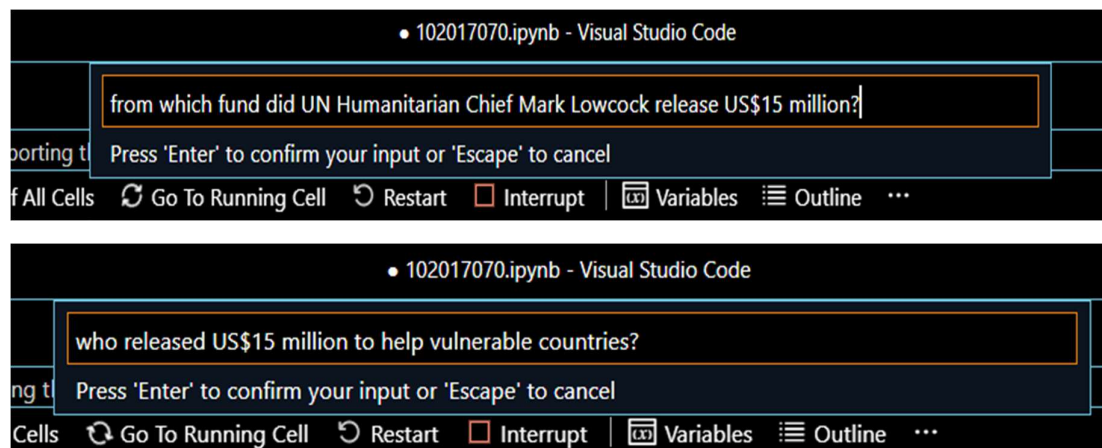
Extensive testing in clinical trials has confirmed that the malaria vaccine, RTS,S/AS01, reduces malaria significantly, including life-threatening severe malaria. The Malaria Vaccine Implementation Programme (MVIP) is now underway to (i) support the pilot implementation of RTS,S/AS01 by routine health systems, and (ii) evaluate the routine use of the vaccine.

## PART II

*In this a question answering system is developed that can answer When/Where/Who type questions.*

*The user enters the question. The system uses sequencematcher to match pattern and calculate the ratio. It updates the max ratio and displays the sentence with the maximum ratio.*

*Questions:*



*Answers:*

