Good evening everyone,

Welcome to Smart India Hackathon. We are from team Night Hunters leaded by Kranthi Kiran.

Well, We have chosen the problem statement of government of Puducherry with problem code DK\_181 under software category with domain bucket smart education.

The are mainly two challenges in the market today, faced by the online learners –

Challenge 1:

There is currently no tool in the market such that when the learner uploads a document and asks a question, the tool is be able to generate precise answers from the document for the question posed. And the answers generated can be of two categories, shorter and lengthier.

Challenge 2:

There is also no model in the market that can be able to identify important information and automatically place them and generate ppts in order to help the facilitator in the dissemination of the content to the students.

Well, these two challenges are the current industry level requirements.

**Motivation:**

The motivation behind taking up this challenge is -

Slow learners may find it difficult to have the same pace as of their peers and ultimately start feeling depressed and loose hope. So, we desired to develop a model which intendeds to provide motivation to them especially when they are struggling.

Also facilitators / lecturers may find it difficult to research and read the huge document and prepare a material out of it. With the above two difficulties in mind we came up with a model named “**quester”.**

So what quester does:

It motivates slow learners by saving and giving them extra time in preparing for examinations by automatically generating precise answers

With this model in hand facilitators may find it easy in delivering the content to students since it automatically generates ppts by highlighting important points.

Parents who are novice to particular theory or subject can find this model advantageous in training their wards.

So, what actually the quester is and the process flow is detailed in the coming slides.

**Future scope:**

Well, with this current technology in hand, the model is able to achieve the intended challenges and provide benefits. According to industry level 4.0 and inorder to meet its requirements these can be incorporated to provide benefits to a vast number.

The model loads with the backend so if the model is separately deployed on the cloud servers this may not require huge time and meet the computational power.

In some cases, the loss of potential or important information can be avoided by performing the pre-processing effectively.

Bert question answering model used in this application may not be able to handle the reasoning based questions or logical based and retrieves the answers as a span of input.

The model built so far can achieve all the challenges and With the above mentioned scenarios it can meet the market and industry level 4.0 requirements.