Project ID: PW20MHR04

Project Type: Minor

Project Title: Question Answering System

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Project Guide: Dr. Mamatha H R

Project Abstract:

The goal of the project is to produce a question answering system that generates answers from the knowledge base or text paragraphs for the questions posed as input. The answer to a question is always a part of the context and a direct answer is expected in response to a submitted query, rather than a set of references that may contain the answers.

The system has also been extended to answer questions on the topic "Computer Security" without an input context.

Code Execution :

Both training and prediction can be executed on Google Colab.

Training:

To train the model,

1. Open training.ipynb on a Colab notebook.
2. Change the runtime to TPU.
3. Create a GCP bucket to store the fine-tuned model.
4. Run all cells to obtain the model in the bucket.
5. Restart training from the lastest checkpoint in case of failure.

Prediction:

To run the application,

1. Download the folder called "root" and move it to the drive.
2. Download the model from the bucket and move it to the "model" folder in the "root" directory. Or download the model we trained here.
3. Open main.ipynb on a colab notebook.
4. Run all cells. Authentication to the drive must be done when prompted.
5. The final cell provides a public URL, which when clicked will open the application.