AI recruiter model:

Idea:

The idea for the website is to provide the recruiter with a one stop solution for easier and smoother recruiter process. The recruiter is expected to have a .csv file with candidate names and links of their resumes for a particular job ID or job role. This can be done by using a form like interface like Google Forms or Microsoft Forms.

Once uploaded, the resumes will be parsed and ranked by a NLP model and an output of multiselect rows with candidate details and summary of resume will be made available to the recruiter, and the resumes will be ranked by the model.

The recruiter can select the top requests, and those people will get automated mail using a mail generator script that uses Google's API for meet scheduling. The respective credentials must be entered by the recruiter on the script for using the API.

Model:

The model is trained on a sample resume dataset from Kaggle containing 962 rows with two columns 'Job category' and 'Resume details'. These are passed through a resume parser which is a pretrained spaCy transformer-based model named **en_core_web_trf**.

The parsed features are then taken and made into vector embeddings and fed through a recommendation model to get a model that can rank CVs. Also, the CVs are presented with a summary with preferably **plnia Text Summarization API**.

The whole application is done on GPU while also utilizing Nvidia **RAPIDS** that include cuDF for accelerating pandas' data frames on GPU. Also, the use of nvstrings is used to move strings to CUDA device.

Issues:

Current issues for generating the model are

1. Limited speed and capacity of Google Colab's free tier GPU.
2. Limited amount of high-quality data.
3. Lack of Google Cloud credentials.
4. Incomplete integration and support for all RAPIDS libraries on Colab.