**Captions generation and images search engine by text project**

**Agenda:**

1. Approach
2. Challenges
3. Challenges overcoming
4. Business proposal

* **Approach:**

The code was built by using python platform based on opensource models from hugging face. blip-image-captioning-base model was used for captions generation. clip-vit-base-patch32 was used for search engine. The user friendly interface will be done by using streamlet app.

* **Challenges:**

1. It was the first time I used a caption generation model.
2. Using front end application is not my expertise.

* **Challenges overcoming:**

1. I used hugging face website to search for caption generation model
2. I found a video on youtube explaining how to implement progects using streamlit.

* **Business proposal:**

**Captions generation**

**Problem definition:**

There is a need for captioning an image automatically.

**Business impacts:**

It will be used by content creation companies in social media.

**Difficulties:**

Creation captions for image takes a lot of resources especially scripts experts and catchy words for marketing purposes.

Resources needed:

The solution will be provided by open source hugging face transformer

* **Business proposal:**

**Search engine in images dataset**

**Problem definition:**

Policemen need to search in national images data for suspects based on victims’ description

**Business impacts:**

Improve the productivity of policemen in taking criminals into custody.

**Difficulties:**

Getting access to national images to try the model.

**Resources needed:**

Hardware and an AI team to take care of different aspects of the project