

# NLP Project - 2

**Due Date: 12/4/2023**

## Deliverables

- Notebook (make sure it runs on Google Colab)
- 7-10 slides
- up to 4-page report, excluding references

## Project Description

### Part 1 - Question-Answering pipeline

**Objective** - Implement a prompt interface that takes in a question, runs it through the question-answering pipeline and returns the answer

**Tasks:**

- Find five 300-words sections from a book that introduces the following:
    - Protagonist
    - Antagonist
    - Crime and crime scene
    - Any significant evidence
    - Resolution of crime/a narrative that presents the case against perpetrator
  - Ask the model questions and return the answers
  - Document the results
  - Use different Question-Answering model to do same tasks mentioned above and document differences in the results
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### Part 2 - Translation pipeline (French)

**Objective** - Utilize a translation pipeline that translates the answers found in Part 1 into French and back to English

**Tasks:**

```
> Question
> Answer in English
```

> Answer in French  
> Answer in English, translated from French

- Document the results
  - Use different Translation model to do same tasks mentioned above and document differences in the results
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## Part 3 - Summarization pipeline

**Objective** - Utilize a text summarization pipeline that summarizes the 300-words sections found in Part 1

**Tasks:**

- Run the five 300-words sections through pipeline
- Document the results
- Use different text summarization model to do same tasks mentioned above and document differences in the results