Image Caption Generator

Objective :

Generate caption for a given picture.

Mission statement :

- Use the provided dataset to provide captions.
- Define your modelisation strategy.
- Use the framework of your choice (only one framework allowed).

Suggested Dataset :

- Flickr8k Dataset

Ressources:

- Blogs
  - Image Captioning Keras

Livrables :

- **A notebook** (html or ipynb) :
  - Introduction
  - Dataset loading
  - Preprocessing
  - Modelization
  - Inference
- **BONUS:**
  - Script: an API capable of taking an image as input and output the caption for the input

Evaluation criterias (120 / 100 pts) :

Skill	Description	Points
Introduction	• Using at least 3 different resources (kaggle notebooks, blogs, youtube videos or else…), explain your strategy and why you think this is going to work. • Bibliographical references are present.	20
Preprocessing	• Describe the steps and usefulness of your image pre-processing.	10
Modelization	• How does your model work and why do you think it is interesting for this dataset modelisation?	20
Performances	• A baseline is defined. • All necessary comparisons are done. • Figures are readable and legends are present. • The number of points for this criteria is weighted by your model performances.	50
Application (bonus)	• The script (API) and the dashboard are functional.	20