

Project: Image Synthesis from Job Description (**Job2Portrait**)

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The Context

Job opportunities are always displayed through relatively long texts.

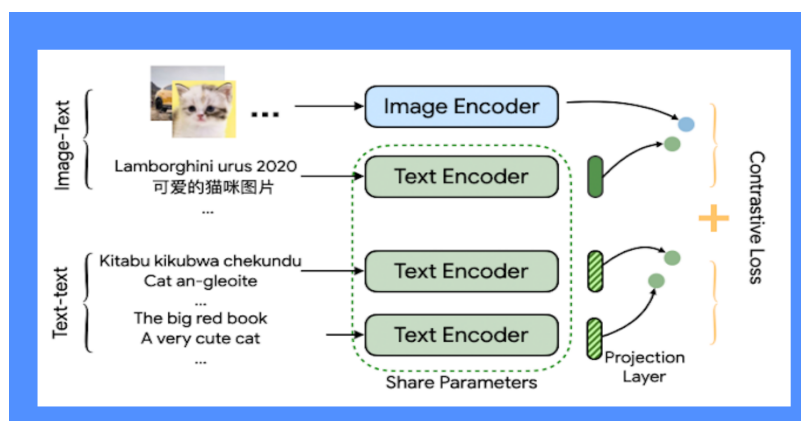
This format is more accessible for white collars (highly skilled jobs) compared to frontline workers in blue-collar positions (low-skilled jobs).

To make job offers more understandable and accessible, we decided to develop an AI model capable of generating an image corresponding to the content of a job offer.



The Goal

This subject will explore the recent advances in text-to-image generation to handle the task.



We will have the opportunity to experiment with two approaches:

1. Triplet Learning: to define a similarity measure between a set of millions of images and raw/structured input text
2. Generative Adversarial Learning: to automatically generate the pixels of the image from a raw/structured input text

Keywords : *Deep Learning, NLP, Computer Vision, Triplet learning, GAN*

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