

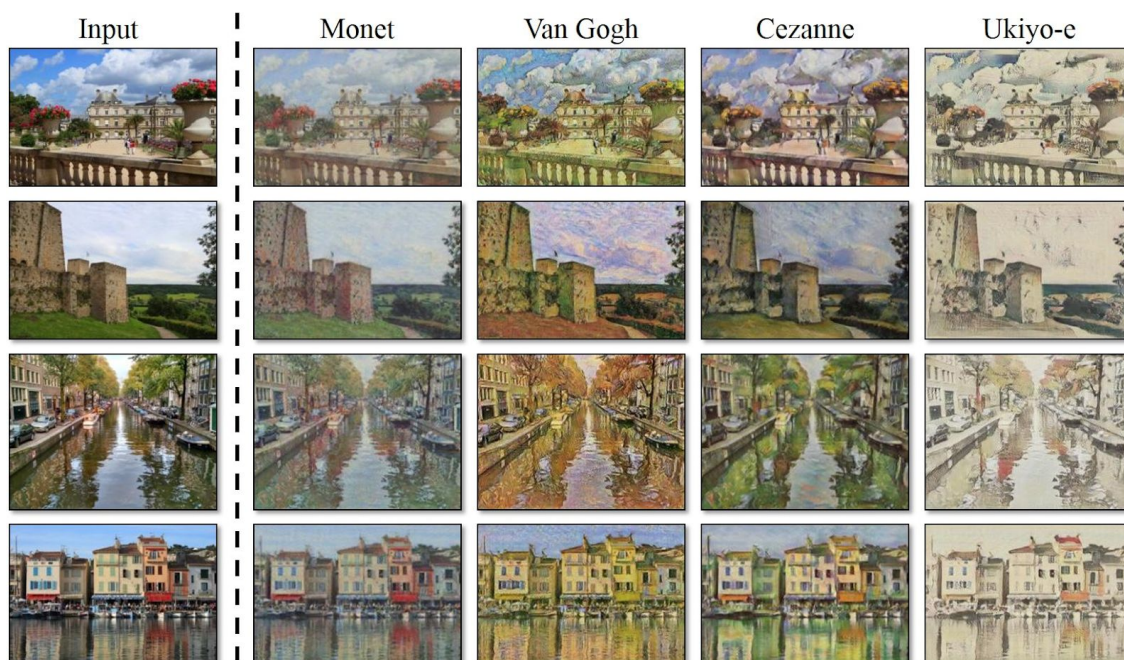
Instructions: You are allowed to discuss but the final answer should be your own. Any instance of cheating will be considered as academic dishonesty and penalty will be applied.

Q1. Train a convolutional recurrent neural network for scene text recognition. You can use any of the following benchmarks databases for the task: namely ICDAR 2003 (IC03), ICDAR 2013 (IC13), IIIT 5k-word (IIIT5k), and Street View Text (SVT). **(40 Marks)**

- (a) Show the convergence plot.
- (b) Quantitative and qualitative analysis of results.

Paper for reference: <https://arxiv.org/pdf/1507.05717.pdf>

Q2. Perform image style transfer using the generative adversarial network. The examples of possible image transfer include the conversion of winter image into summer image, vice-versa, and color image into paint image. Some examples are given below: **(60 Marks)**



You can use any one database used in the following papers. Show the convergence plot and qualitative analysis in the report.

Papers for reference: (1) <https://arxiv.org/pdf/1703.10593.pdf>

(2) <https://arxiv.org/pdf/1611.07004.pdf>