

Midterm Review

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Project Name: Image Style Transfer using GANs

Project UID: 46

Learnings from Week 1 and 2:

Completed Courses 1 and 3 of the Generative Adversarial Networks (GANs) Specialization offered by DeepLearning.ai.

Course 1: Build Basic Generative Adversarial Networks (GANs)

- Learned about GANs and their applications.
- Understood the intuition behind the fundamental components of GANs.
- Explored and implemented multiple GAN architectures.
- Built conditional GANs capable of generating examples from determined categories.

Course 3: Apply Generative Adversarial Networks (GANs)

- Explored the applications of GANs in data augmentation, privacy, and anonymity.
- Leveraged the image-to-image translation framework and identified applications beyond images.
- Implemented Pix2Pix for paired image-to-image translation (e.g., satellite images to map routes).
- Compared paired and unpaired image-to-image translation and understood architectural differences.
- Implemented CycleGAN for unpaired image-to-image translation (e.g., horses to zebras).