

IDL - Appeal, Exam B.

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Question 7 - RNN nets. Does a recursive net of type Elman, that gets the zero vector as input at each step, can count? Namely, outputs the value t at its t -th step?

1. Yes
2. No
3. In general No, Yet when given t as initial input, yes.

My answer: (3), Correct answer: (1) .

Question 8 - Inception Score. Which of the following scenarios is expected to yield high IS score, although the generated images are at low quality?

1. The model generates a blurred images, yet with high number of categorical.
2. The model generates clear elements that are easy to classify, Yet the elements (inside them) are unrealistic.
3. The model generates good images and then add them a random noise.
4. The model generates images with high variance between the outputs at the pixels level, but their sementic content repeats on itself.

Question 14 - VAEs. What is the reason for the generated images by VAEs been blurred compared to the images generated by GANs ?

1. Usage of reconstruction loss that smooth sharp items.
2. KL-divergence element that impair the disentangle (or separation) of different samples in the latent space.
3. Low presentation ability of the VAEs architecture.
4. Entering too mach noise into the latent space, which after decoding comes into fact in burred image.