Lecture 4 Notes:

4: This kind of data cannot be processed by traditional neural networks since input length and output length are always fixed. But for example in translation tasks you can have “Danke”->”Thank you” and “Dankeschön”->”Thank you very much” (different input and output lengths).

7: Recurrent Neural Networks take input at different points. Note: All inputs are still connected with following outputs (passed on via the “a”-Output).

17: GAN are usually used to generate new images.

23: Generator generates an image and discriminator needs to decide which one is real and which one is fake. Generator then updates its algorithm and creates something “better” / closer to a real picture.