

What I know

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0.1 Context

0.2 Learned in this study

0.3 Things to explore

1 Overview

Topic (Confidence)

- Artificial neural network (80%)
- Layer (100%)
- Activation functions (60%)
- Forward propagation (60%)
- Back propagation (20%)
- Loss metric
 - Binary cross entropy (50%)
 - Categorical cross entropy (40%)
- Optimizer
 - SGD
 - RMSProp
 - Adam
 - NAdam
 - Adamax
 - Adadelata
 - Adagrad
- RNN (30%)
 - GRU (5%)
 - LSTM (5%)
- CNN (40%)
- DNN (50%)
- Autoencoder (AE) (10%)
 - Variational autoencoder (VAE) (5%)
- Generative adversarial network (GAN)
- Reinforcement learning (20%)
 - Value policy (20%)
 - Action-value policy (20%)
 - Q-learning (0%)
 - A3C
- Data augmentation (30%)
 - Image (40%)
 - Text
 - Data

- Common problems
 - Regression (40%)
 - Classification (50%)
 - Sequence translation
 - Sequence recognition
 - Speech recognition (STT)
 - Handwriting recognition (50%)
 - Speech generation (TTS)
 - Object recognition from images
 - Object recognition from video
- Network operations
 - Pooling
- Natural language processing
- Linear algebra (60%)

2 See also

3 References