

Question 1: What were the three categories that the loss functions in traditional machine learning were divided into based on their task?

Question 2: How is deep learning different than traditional machine learning?

Question 3: Which loss function in deep learning - object detection would be useful when there are many background objects, and only a few regions containing the object?

Answer Question 1: Classification problem, regression problem, unsupervised learning.

Answer Question 2: Deep learning doesn't need to focus on feature engineering. Directly extracts features from data when training deep neural networks.

Answer Question 3: Focal loss function. It gives a higher weight to misclassified examples of the minority class.