Multiclass CE

Multi-Class Cross-Entropy



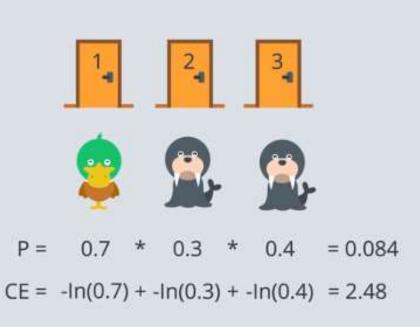
https://kevinthegrey.tistory.com/93

Multi-Class Cross-Entropy

ANIMAL	DOOR 1	DOOR 2	DOOR 3	
	0.7	0.3	0.1	
	0.2	0.4	0.5	
	0.1	0.3	0.4	

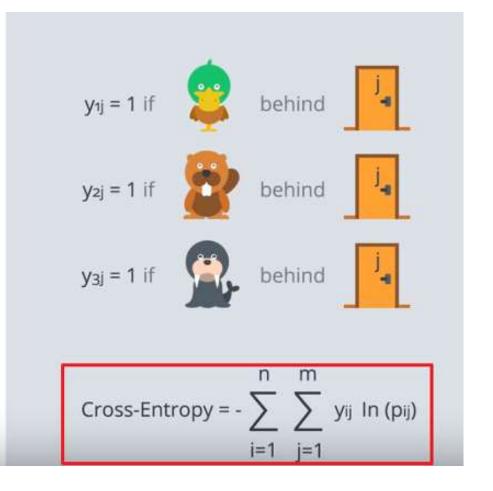
Multi-Class Cross-Entropy

ANIMAL	DOOR 1	DOOR 2	DOOR 3	
2	0.7	0.3	0.1	
8	0.2	0.4	0.5	
	0.1	0.3	0.4	

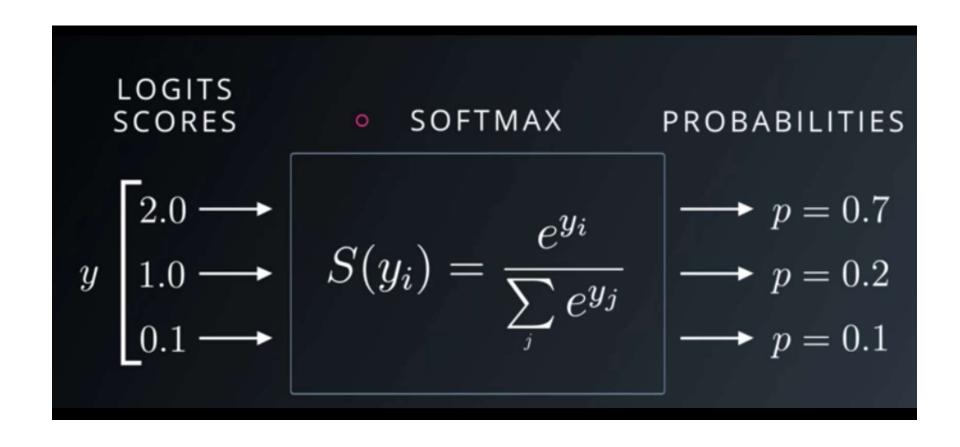


Multi-Class Cross-Entropy

ANIMAL	DOOR 1	DOOR 2	DOOR 3	
2	P ₁₁	p ₁₂	P ₁₃	
8	P ₂₁	P ₂₂	p ₂₃	
	p ₃₁	p ₃₂	p ₃₃	

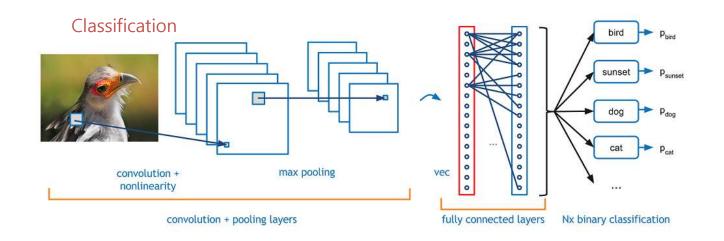


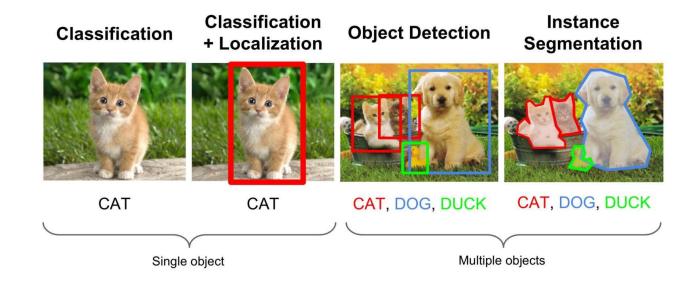
SoftMax



What is Classification?

- Classification vs.
- Localization
- Detection
- Segmentation





Confusion Matrix in Numeric

Truth

	Asphalt	Concrete	Grass	Tree	Building	Total
Asphalt	2385	4	0	1	4	2394
Concrete	0	332	0	0	1	333
Grass	0	1	908	8	0	917
Tree	0	0	0	1084	9	1093
Building	12	0	0	6	2053	2071
Total	2397	337	908	1099	2067	6808

Predicted

Confusion Matrix in %

