Görüntü Segmentasyonu

İrem Kömürcü

Hello Everyone!



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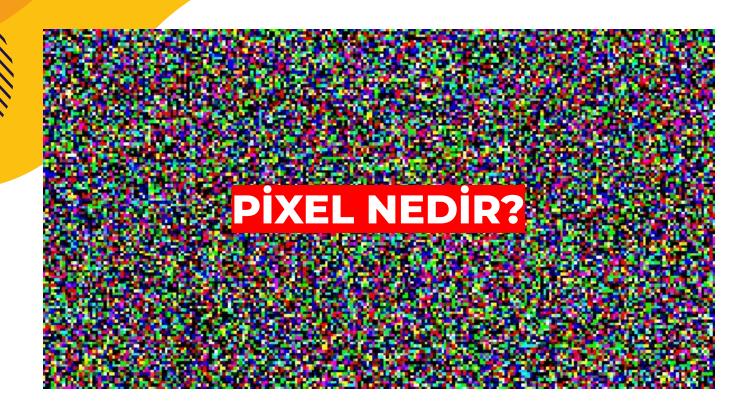
Al Specialist - Global Al Hub

HUG 19 - Fellow

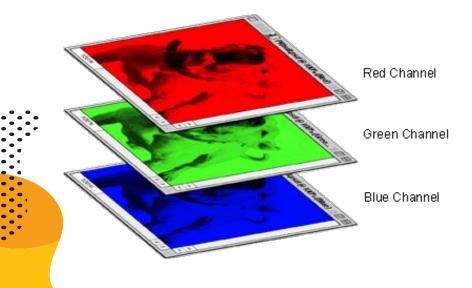
Deep Learning Türkiye - Core Member

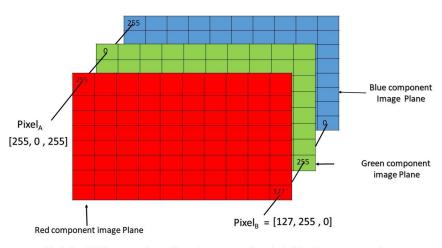
TensorFlow Turkey - Core Member

GDG & WTM İstanbul - Organizer

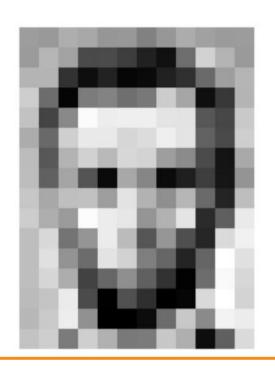








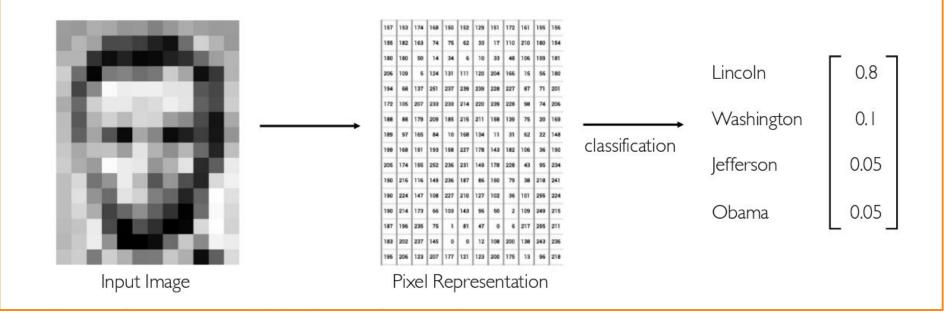
Pixel of an RGB image are formed from the corresponding pixel of the three component images

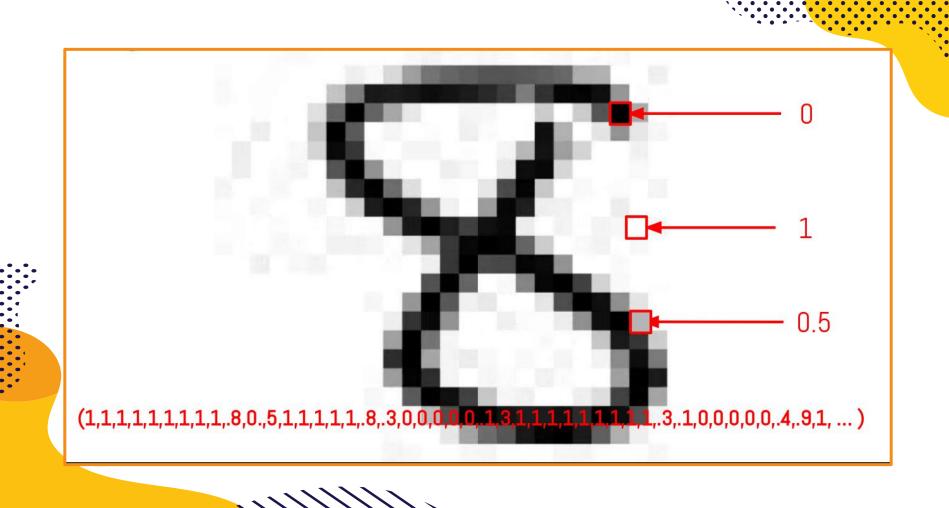


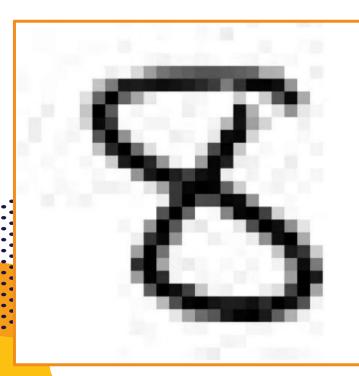
_						-					
157	153	174	168	150	152	129	151	172	161	155	156
155	182	163	74	75	62	33	17	110	210	180	154
180	180	50	14	34	6	10	33	48	105	159	181
206	109	5	124	191	111	120	204	166	15	56	180
194	68	137	251	237	239	239	228	227	87	71	201
172	105	207	233	233	214	220	239	228	98	74	206
188	88	179	209	185	215	211	158	139	75	20	161
189	97	165	84	10	168	134	11	51	62	22	14
199	168	191	193	158	227	178	143	182	105	36	19
205	174	155	252	236	251	149	178	228	43	95	23
190	216	116	149	236	187	85	150	79	38	218	24
190	224	147	108	227	210	127	102	36	101	255	22
190	214	173	66	103	143	95	50	2	109	249	21
187	196	235	75	١	81	47	0	6	217	255	21
183	202	237	145	0	0	12	108	200	138	243	23
195	206	123	207	177	121	123	200	175	13	95	210

What the computer sees

157	153	174	168	150	152	129	151	172	161	155	156
156	182	163	74	75	62	33	17	110	210	180	154
180	180	50	14	34	6	10	33	48	106	159	181
206	109	5	124	131	111	120	204	166	16	56	180
194	68	137	251	237	239	239	228	227	87	n	201
172	106	207	233	233	214	220	239	228	98	74	206
188	88	179	209	185	215	211	158	139	75	20	169
189	97	166	84	10	168	134	11	31	62	22	148
199	168	191	193	158	227	178	143	182	106	36	190
206	174	155	252	236	231	149	178	228	43	95	234
190	216	116	149	236	187	86	150	79	38	218	241
190	224	147	108	227	210	127	102	36	101	255	224
190	214	173	66	103	143	96	50	2	109	249	216
187	196	235	75	1	81	47	0	6	217	255	211
183	202	237	145	0	0	12	108	200	138	243	236
196	206	123	207	177	121	123	200	175	13	96	218



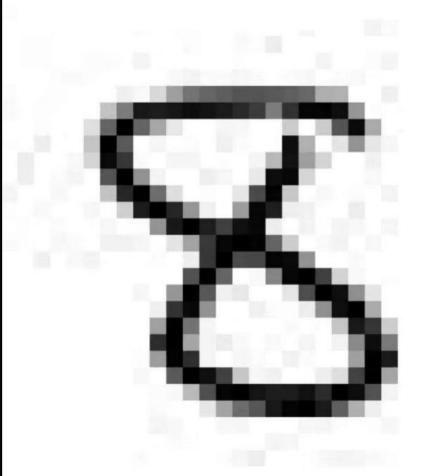


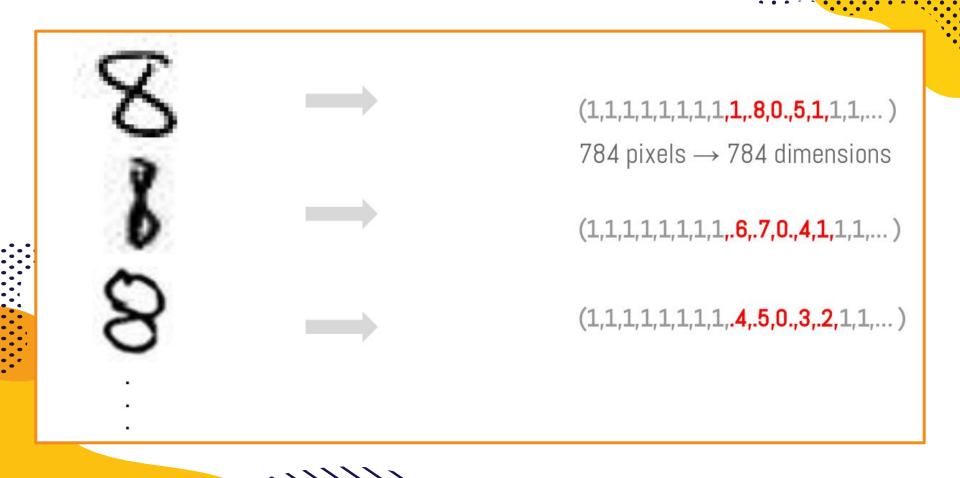


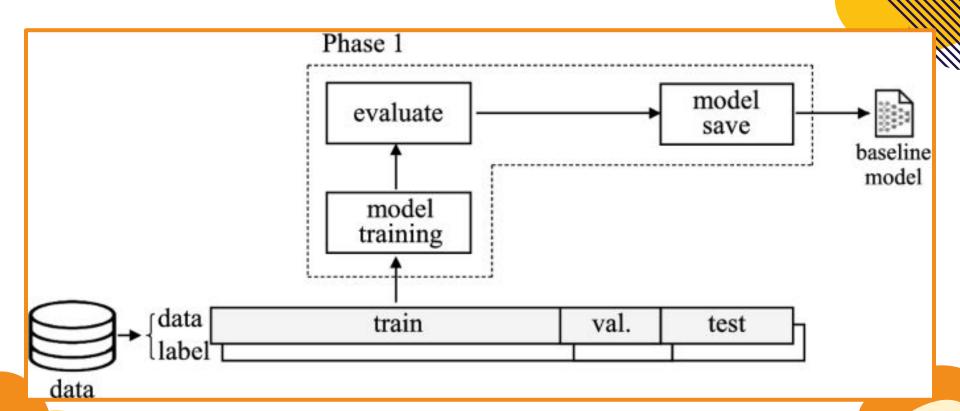
(1,1,1,1,1,1,1,1,1,8,0.,5,1,1,1,1,...)

 $784 \text{ pixels} \rightarrow 784 \text{ dimensions}$

1 1 / // / / / / / 1 7 7 7 7 **7 7** 7 7 7 7 7 7

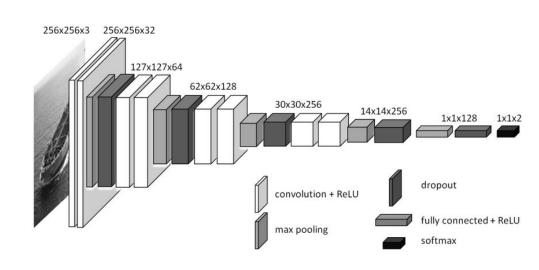


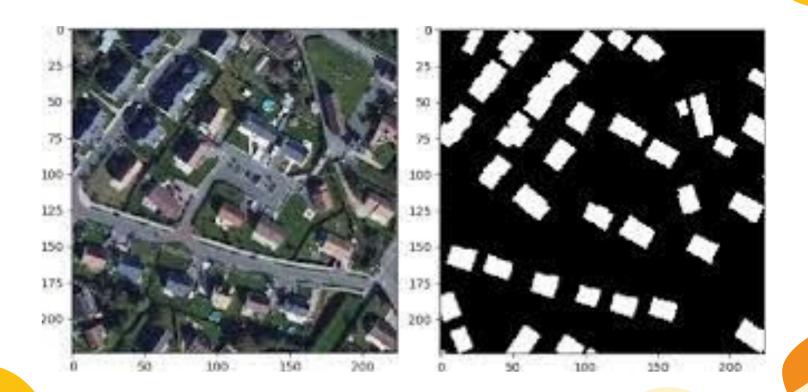


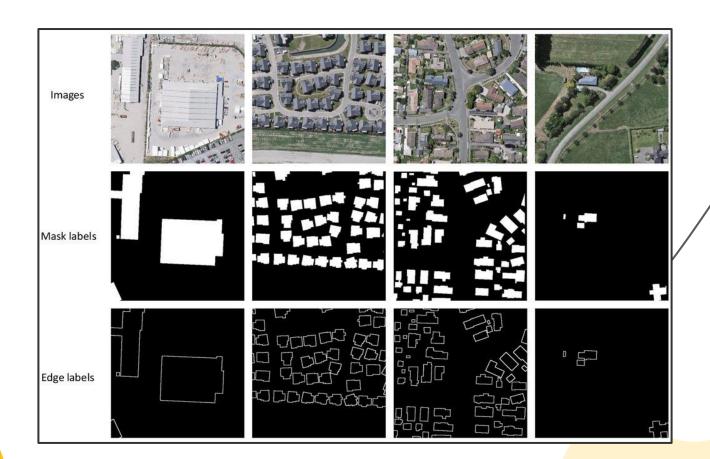


Derin Öğrenme - Ağlar

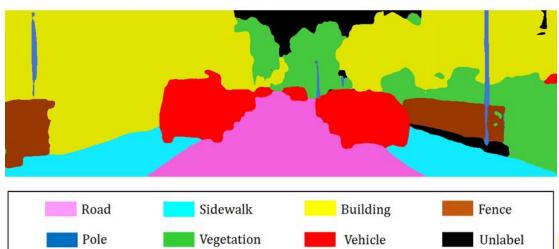
- Convolutional Neural Networks (CNNs)
- Long Short Term Memory Networks (LSTMs)
- Recurrent Neural Networks (RNNs)
- Generative Adversarial Networks (GANs)
- Radial Basis Function Networks (RBFNs)
- Multilayer Perceptrons (MLPs)
- Self Organizing Maps (SOMs)
- Deep Belief Networks (DBNs)
- Restricted Boltzmann Machines (RBMs)

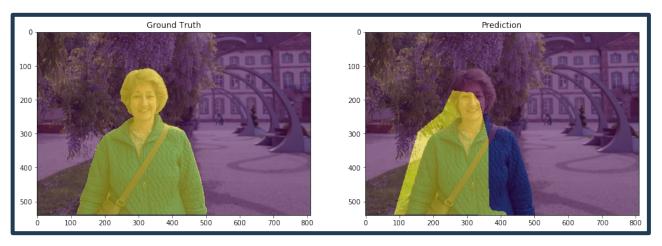


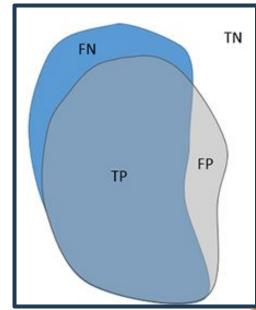


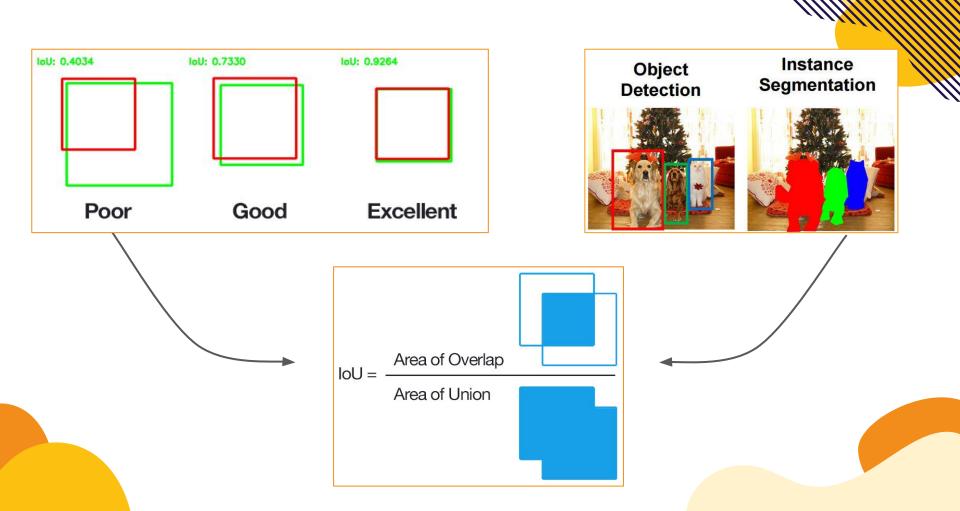












https://github.com/qubvel/segmentation_models