Report

**Train Data Visualization (with augmentation)**

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**Valid Data Visualization (without augmentation)**

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**Training Curves**

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Epoch: 1/100

100%|██████████| 1769/1769 [14:36<00:00, 2.02it/s, Loss=20.880, bbox\_mAP=0.002, kpt\_mAP=0.000]

100%|██████████| 37/37 [00:46<00:00, 1.26s/it, Loss=20.777, bbox\_mAP=0.001, kpt\_mAP=0.000]

Epoch: 2/100

100%|██████████| 1769/1769 [15:34<00:00, 1.89it/s, Loss=16.563, bbox\_mAP=0.094, kpt\_mAP=0.003]

100%|██████████| 37/37 [00:34<00:00, 1.09it/s, Loss=14.339, bbox\_mAP=0.204, kpt\_mAP=0.011]

Epoch: 3/100

100%|██████████| 1769/1769 [15:24<00:00, 1.91it/s, Loss=13.400, bbox\_mAP=0.229, kpt\_mAP=0.015]

100%|██████████| 37/37 [00:33<00:00, 1.11it/s, Loss=12.460, bbox\_mAP=0.314, kpt\_mAP=0.036]

Epoch: 4/100

100%|██████████| 1769/1769 [15:10<00:00, 1.94it/s, Loss=12.171, bbox\_mAP=0.290, kpt\_mAP=0.034]

100%|██████████| 37/37 [00:34<00:00, 1.08it/s, Loss=11.205, bbox\_mAP=0.383, kpt\_mAP=0.071]

Epoch: 5/100

100%|██████████| 1769/1769 [16:38<00:00, 1.77it/s, Loss=11.138, bbox\_mAP=0.349, kpt\_mAP=0.057]

100%|██████████| 37/37 [00:33<00:00, 1.11it/s, Loss=11.147, bbox\_mAP=0.385, kpt\_mAP=0.094]

Epoch: 6/100

100%|██████████| 1769/1769 [17:09<00:00, 1.72it/s, Loss=10.608, bbox\_mAP=0.380, kpt\_mAP=0.076]

100%|██████████| 37/37 [00:35<00:00, 1.04it/s, Loss=9.811, bbox\_mAP=0.466, kpt\_mAP=0.137]

Epoch: 7/100

100%|██████████| 1769/1769 [14:57<00:00, 1.97it/s, Loss=10.270, bbox\_mAP=0.403, kpt\_mAP=0.084]

100%|██████████| 37/37 [00:27<00:00, 1.35it/s, Loss=9.735, bbox\_mAP=0.469, kpt\_mAP=0.136]

Epoch: 8/100

100%|██████████| 1769/1769 [13:52<00:00, 2.12it/s, Loss=10.001, bbox\_mAP=0.414, kpt\_mAP=0.099]

100%|██████████| 37/37 [00:29<00:00, 1.25it/s, Loss=9.314, bbox\_mAP=0.498, kpt\_mAP=0.152]

Epoch: 9/100

100%|██████████| 1769/1769 [15:46<00:00, 1.87it/s, Loss=9.809, bbox\_mAP=0.423, kpt\_mAP=0.105]

100%|██████████| 37/37 [00:29<00:00, 1.24it/s, Loss=9.149, bbox\_mAP=0.498, kpt\_mAP=0.171]

Epoch: 10/100

100%|██████████| 1769/1769 [15:15<00:00, 1.93it/s, Loss=9.652, bbox\_mAP=0.431, kpt\_mAP=0.111]

100%|██████████| 37/37 [00:35<00:00, 1.04it/s, Loss=8.923, bbox\_mAP=0.518, kpt\_mAP=0.183]

Epoch: 11/100

100%|██████████| 1769/1769 [14:33<00:00, 2.02it/s, Loss=9.534, bbox\_mAP=0.440, kpt\_mAP=0.120]

100%|██████████| 37/37 [00:28<00:00, 1.32it/s, Loss=8.783, bbox\_mAP=0.528, kpt\_mAP=0.186]

Epoch: 12/100

100%|██████████| 1769/1769 [14:33<00:00, 2.03it/s, Loss=9.414, bbox\_mAP=0.452, kpt\_mAP=0.128]

100%|██████████| 37/37 [00:36<00:00, 1.01it/s, Loss=8.730, bbox\_mAP=0.535, kpt\_mAP=0.194]

Epoch: 13/100

100%|██████████| 1769/1769 [14:00<00:00, 2.11it/s, Loss=9.317, bbox\_mAP=0.453, kpt\_mAP=0.132]

100%|██████████| 37/37 [00:28<00:00, 1.32it/s, Loss=8.702, bbox\_mAP=0.537, kpt\_mAP=0.194]

Epoch: 14/100

100%|██████████| 1769/1769 [13:52<00:00, 2.13it/s, Loss=9.197, bbox\_mAP=0.459, kpt\_mAP=0.138]

100%|██████████| 37/37 [00:28<00:00, 1.31it/s, Loss=8.622, bbox\_mAP=0.535, kpt\_mAP=0.207]

Epoch: 15/100

100%|██████████| 1769/1769 [14:03<00:00, 2.10it/s, Loss=9.137, bbox\_mAP=0.463, kpt\_mAP=0.143]

100%|██████████| 37/37 [00:31<00:00, 1.17it/s, Loss=8.438, bbox\_mAP=0.546, kpt\_mAP=0.218]

Epoch: 16/100

100%|██████████| 1769/1769 [15:07<00:00, 1.95it/s, Loss=9.038, bbox\_mAP=0.465, kpt\_mAP=0.145]

100%|██████████| 37/37 [00:31<00:00, 1.17it/s, Loss=8.382, bbox\_mAP=0.553, kpt\_mAP=0.222]

Epoch: 17/100

100%|██████████| 1769/1769 [13:49<00:00, 2.13it/s, Loss=8.975, bbox\_mAP=0.468, kpt\_mAP=0.148]

100%|██████████| 37/37 [00:28<00:00, 1.30it/s, Loss=8.474, bbox\_mAP=0.540, kpt\_mAP=0.220]

Epoch: 18/100

100%|██████████| 1769/1769 [13:53<00:00, 2.12it/s, Loss=8.907, bbox\_mAP=0.479, kpt\_mAP=0.156]

100%|██████████| 37/37 [00:29<00:00, 1.23it/s, Loss=8.232, bbox\_mAP=0.559, kpt\_mAP=0.234]

Epoch: 19/100

100%|██████████| 1769/1769 [15:09<00:00, 1.95it/s, Loss=8.841, bbox\_mAP=0.478, kpt\_mAP=0.155]

100%|██████████| 37/37 [00:30<00:00, 1.19it/s, Loss=8.302, bbox\_mAP=0.557, kpt\_mAP=0.226]

Epoch: 20/100

100%|██████████| 1769/1769 [16:10<00:00, 1.82it/s, Loss=8.804, bbox\_mAP=0.480, kpt\_mAP=0.163]

100%|██████████| 37/37 [00:29<00:00, 1.26it/s, Loss=8.198, bbox\_mAP=0.556, kpt\_mAP=0.235]

Epoch: 21/100

100%|██████████| 1769/1769 [13:59<00:00, 2.11it/s, Loss=8.726, bbox\_mAP=0.481, kpt\_mAP=0.161]

100%|██████████| 37/37 [00:29<00:00, 1.26it/s, Loss=8.091, bbox\_mAP=0.566, kpt\_mAP=0.241]

Epoch: 22/100

100%|██████████| 1769/1769 [13:53<00:00, 2.12it/s, Loss=8.690, bbox\_mAP=0.478, kpt\_mAP=0.162]

100%|██████████| 37/37 [00:30<00:00, 1.22it/s, Loss=8.010, bbox\_mAP=0.564, kpt\_mAP=0.246]

Epoch: 23/100

100%|██████████| 1769/1769 [16:43<00:00, 1.76it/s, Loss=8.654, bbox\_mAP=0.481, kpt\_mAP=0.166]

100%|██████████| 37/37 [00:35<00:00, 1.05it/s, Loss=7.957, bbox\_mAP=0.568, kpt\_mAP=0.252]

Epoch: 24/100

100%|██████████| 1769/1769 [16:10<00:00, 1.82it/s, Loss=8.616, bbox\_mAP=0.485, kpt\_mAP=0.169]

100%|██████████| 37/37 [00:27<00:00, 1.36it/s, Loss=7.961, bbox\_mAP=0.567, kpt\_mAP=0.245]

Epoch: 25/100

100%|██████████| 1769/1769 [13:09<00:00, 2.24it/s, Loss=8.586, bbox\_mAP=0.487, kpt\_mAP=0.175]

100%|██████████| 37/37 [00:27<00:00, 1.35it/s, Loss=7.886, bbox\_mAP=0.575, kpt\_mAP=0.256]

Epoch: 26/100

100%|██████████| 1769/1769 [13:19<00:00, 2.21it/s, Loss=8.549, bbox\_mAP=0.490, kpt\_mAP=0.173]

100%|██████████| 37/37 [00:27<00:00, 1.34it/s, Loss=7.841, bbox\_mAP=0.573, kpt\_mAP=0.260]

Epoch: 27/100

100%|██████████| 1769/1769 [13:08<00:00, 2.24it/s, Loss=8.482, bbox\_mAP=0.493, kpt\_mAP=0.182]

100%|██████████| 37/37 [00:27<00:00, 1.37it/s, Loss=7.748, bbox\_mAP=0.576, kpt\_mAP=0.270]

Epoch: 28/100

100%|██████████| 1769/1769 [13:03<00:00, 2.26it/s, Loss=8.464, bbox\_mAP=0.495, kpt\_mAP=0.184]

100%|██████████| 37/37 [00:26<00:00, 1.40it/s, Loss=7.847, bbox\_mAP=0.576, kpt\_mAP=0.260]

Epoch: 29/100

100%|██████████| 1769/1769 [13:01<00:00, 2.26it/s, Loss=8.405, bbox\_mAP=0.495, kpt\_mAP=0.185]

100%|██████████| 37/37 [00:26<00:00, 1.39it/s, Loss=7.792, bbox\_mAP=0.581, kpt\_mAP=0.275]

Epoch: 30/100

100%|██████████| 1769/1769 [12:53<00:00, 2.29it/s, Loss=8.385, bbox\_mAP=0.507, kpt\_mAP=0.189]

100%|██████████| 37/37 [00:26<00:00, 1.41it/s, Loss=7.922, bbox\_mAP=0.564, kpt\_mAP=0.258]

Epoch: 31/100

100%|██████████| 1769/1769 [12:48<00:00, 2.30it/s, Loss=8.350, bbox\_mAP=0.503, kpt\_mAP=0.186]

100%|██████████| 37/37 [00:26<00:00, 1.42it/s, Loss=7.772, bbox\_mAP=0.574, kpt\_mAP=0.273]

Epoch: 32/100

100%|██████████| 1769/1769 [35:55<00:00, 1.22s/it, Loss=8.322, bbox\_mAP=0.500, kpt\_mAP=0.190]

100%|██████████| 37/37 [00:31<00:00, 1.16it/s, Loss=7.620, bbox\_mAP=0.590, kpt\_mAP=0.287]

Epoch: 33/100

100%|██████████| 1769/1769 [15:07<00:00, 1.95it/s, Loss=8.275, bbox\_mAP=0.506, kpt\_mAP=0.195]

100%|██████████| 37/37 [00:31<00:00, 1.19it/s, Loss=7.672, bbox\_mAP=0.582, kpt\_mAP=0.279]

Epoch: 34/100

100%|██████████| 1769/1769 [15:21<00:00, 1.92it/s, Loss=8.261, bbox\_mAP=0.503, kpt\_mAP=0.191]

100%|██████████| 37/37 [00:30<00:00, 1.19it/s, Loss=7.605, bbox\_mAP=0.584, kpt\_mAP=0.274]

Epoch: 35/100

100%|██████████| 1769/1769 [15:14<00:00, 1.93it/s, Loss=8.252, bbox\_mAP=0.502, kpt\_mAP=0.194]

100%|██████████| 37/37 [00:31<00:00, 1.18it/s, Loss=7.602, bbox\_mAP=0.587, kpt\_mAP=0.273]

Epoch: 36/100

100%|██████████| 1769/1769 [15:13<00:00, 1.94it/s, Loss=8.193, bbox\_mAP=0.507, kpt\_mAP=0.198]

100%|██████████| 37/37 [00:30<00:00, 1.22it/s, Loss=7.622, bbox\_mAP=0.583, kpt\_mAP=0.271]

Epoch: 37/100

100%|██████████| 1769/1769 [15:03<00:00, 1.96it/s, Loss=8.168, bbox\_mAP=0.508, kpt\_mAP=0.195]

100%|██████████| 37/37 [00:31<00:00, 1.18it/s, Loss=7.605, bbox\_mAP=0.589, kpt\_mAP=0.281]

Epoch: 38/100

100%|██████████| 1769/1769 [15:13<00:00, 1.94it/s, Loss=8.189, bbox\_mAP=0.508, kpt\_mAP=0.201]

100%|██████████| 37/37 [00:32<00:00, 1.12it/s, Loss=7.505, bbox\_mAP=0.594, kpt\_mAP=0.287]

Epoch: 39/100

100%|██████████| 1769/1769 [16:00<00:00, 1.84it/s, Loss=8.119, bbox\_mAP=0.512, kpt\_mAP=0.200]

100%|██████████| 37/37 [00:33<00:00, 1.12it/s, Loss=7.463, bbox\_mAP=0.596, kpt\_mAP=0.289]

Epoch: 40/100

100%|██████████| 1769/1769 [15:55<00:00, 1.85it/s, Loss=8.119, bbox\_mAP=0.513, kpt\_mAP=0.203]

100%|██████████| 37/37 [00:38<00:00, 1.04s/it, Loss=7.533, bbox\_mAP=0.587, kpt\_mAP=0.295]

Epoch: 41/100

100%|██████████| 1769/1769 [17:33<00:00, 1.68it/s, Loss=8.087, bbox\_mAP=0.509, kpt\_mAP=0.204]

100%|██████████| 37/37 [00:38<00:00, 1.04s/it, Loss=7.388, bbox\_mAP=0.596, kpt\_mAP=0.302]

Epoch: 42/100

100%|██████████| 1769/1769 [17:33<00:00, 1.68it/s, Loss=8.072, bbox\_mAP=0.513, kpt\_mAP=0.207]

100%|██████████| 37/37 [00:37<00:00, 1.03s/it, Loss=7.467, bbox\_mAP=0.595, kpt\_mAP=0.289]

Epoch: 43/100

100%|██████████| 1769/1769 [17:11<00:00, 1.71it/s, Loss=8.021, bbox\_mAP=0.514, kpt\_mAP=0.212]

100%|██████████| 37/37 [00:38<00:00, 1.05s/it, Loss=7.370, bbox\_mAP=0.599, kpt\_mAP=0.308]

Epoch: 44/100

100%|██████████| 1769/1769 [17:49<00:00, 1.65it/s, Loss=8.008, bbox\_mAP=0.513, kpt\_mAP=0.208]

100%|██████████| 37/37 [00:38<00:00, 1.03s/it, Loss=7.399, bbox\_mAP=0.593, kpt\_mAP=0.299]

Epoch: 45/100

100%|██████████| 1769/1769 [17:40<00:00, 1.67it/s, Loss=7.995, bbox\_mAP=0.518, kpt\_mAP=0.209]

100%|██████████| 37/37 [00:38<00:00, 1.04s/it, Loss=7.265, bbox\_mAP=0.602, kpt\_mAP=0.315]

Epoch: 46/100

100%|██████████| 1769/1769 [17:36<00:00, 1.67it/s, Loss=7.975, bbox\_mAP=0.527, kpt\_mAP=0.224]

100%|██████████| 37/37 [00:37<00:00, 1.02s/it, Loss=7.274, bbox\_mAP=0.600, kpt\_mAP=0.310]

Epoch: 47/100

100%|██████████| 1769/1769 [17:23<00:00, 1.69it/s, Loss=7.946, bbox\_mAP=0.518, kpt\_mAP=0.217]

100%|██████████| 37/37 [00:38<00:00, 1.03s/it, Loss=7.251, bbox\_mAP=0.601, kpt\_mAP=0.305]

Epoch: 48/100

100%|██████████| 1769/1769 [17:42<00:00, 1.66it/s, Loss=7.920, bbox\_mAP=0.519, kpt\_mAP=0.216]

100%|██████████| 37/37 [00:38<00:00, 1.03s/it, Loss=7.291, bbox\_mAP=0.599, kpt\_mAP=0.312]

Epoch: 49/100

100%|██████████| 1769/1769 [17:08<00:00, 1.72it/s, Loss=7.873, bbox\_mAP=0.521, kpt\_mAP=0.219]

100%|██████████| 37/37 [00:35<00:00, 1.04it/s, Loss=7.159, bbox\_mAP=0.605, kpt\_mAP=0.317]

Epoch: 50/100

100%|██████████| 1769/1769 [14:48<00:00, 1.99it/s, Loss=7.888, bbox\_mAP=0.519, kpt\_mAP=0.218]

100%|██████████| 37/37 [00:26<00:00, 1.37it/s, Loss=7.241, bbox\_mAP=0.603, kpt\_mAP=0.314]

Epoch: 51/100

100%|██████████| 1769/1769 [12:55<00:00, 2.28it/s, Loss=7.855, bbox\_mAP=0.523, kpt\_mAP=0.220]

100%|██████████| 37/37 [00:27<00:00, 1.35it/s, Loss=7.326, bbox\_mAP=0.593, kpt\_mAP=0.309]

Epoch: 52/100

100%|██████████| 1769/1769 [12:57<00:00, 2.27it/s, Loss=7.848, bbox\_mAP=0.525, kpt\_mAP=0.223]

100%|██████████| 37/37 [00:26<00:00, 1.38it/s, Loss=7.151, bbox\_mAP=0.607, kpt\_mAP=0.322]

Epoch: 53/100

100%|██████████| 1769/1769 [12:55<00:00, 2.28it/s, Loss=7.816, bbox\_mAP=0.524, kpt\_mAP=0.225]

100%|██████████| 37/37 [00:27<00:00, 1.36it/s, Loss=7.074, bbox\_mAP=0.609, kpt\_mAP=0.328]

Epoch: 54/100

100%|██████████| 1769/1769 [13:03<00:00, 2.26it/s, Loss=7.787, bbox\_mAP=0.530, kpt\_mAP=0.233]

100%|██████████| 37/37 [00:28<00:00, 1.31it/s, Loss=7.180, bbox\_mAP=0.609, kpt\_mAP=0.301]

Epoch: 55/100

100%|██████████| 1769/1769 [14:01<00:00, 2.10it/s, Loss=7.755, bbox\_mAP=0.528, kpt\_mAP=0.226]

100%|██████████| 37/37 [00:27<00:00, 1.34it/s, Loss=7.154, bbox\_mAP=0.606, kpt\_mAP=0.315]

Epoch: 56/100

100%|██████████| 1769/1769 [14:10<00:00, 2.08it/s, Loss=7.772, bbox\_mAP=0.528, kpt\_mAP=0.227]

100%|██████████| 37/37 [00:28<00:00, 1.31it/s, Loss=7.074, bbox\_mAP=0.608, kpt\_mAP=0.325]

Epoch: 57/100

100%|██████████| 1769/1769 [14:07<00:00, 2.09it/s, Loss=7.721, bbox\_mAP=0.532, kpt\_mAP=0.236]

100%|██████████| 37/37 [00:28<00:00, 1.31it/s, Loss=7.022, bbox\_mAP=0.613, kpt\_mAP=0.327]

Epoch: 58/100

100%|██████████| 1769/1769 [14:01<00:00, 2.10it/s, Loss=7.693, bbox\_mAP=0.534, kpt\_mAP=0.238]

100%|██████████| 37/37 [00:28<00:00, 1.32it/s, Loss=7.072, bbox\_mAP=0.610, kpt\_mAP=0.322]

Epoch: 59/100

100%|██████████| 1769/1769 [14:11<00:00, 2.08it/s, Loss=7.702, bbox\_mAP=0.531, kpt\_mAP=0.237]

100%|██████████| 37/37 [00:28<00:00, 1.32it/s, Loss=7.012, bbox\_mAP=0.616, kpt\_mAP=0.340]

Epoch: 60/100

100%|██████████| 1769/1769 [14:03<00:00, 2.10it/s, Loss=7.655, bbox\_mAP=0.537, kpt\_mAP=0.238]

100%|██████████| 37/37 [00:28<00:00, 1.31it/s, Loss=6.945, bbox\_mAP=0.618, kpt\_mAP=0.331]

Epoch: 61/100

100%|██████████| 1769/1769 [14:05<00:00, 2.09it/s, Loss=7.634, bbox\_mAP=0.537, kpt\_mAP=0.239]

100%|██████████| 37/37 [00:28<00:00, 1.31it/s, Loss=6.989, bbox\_mAP=0.616, kpt\_mAP=0.332]

Epoch: 62/100

100%|██████████| 1769/1769 [14:04<00:00, 2.09it/s, Loss=7.637, bbox\_mAP=0.536, kpt\_mAP=0.241]

100%|██████████| 37/37 [00:28<00:00, 1.31it/s, Loss=6.956, bbox\_mAP=0.619, kpt\_mAP=0.332]

Epoch: 63/100

100%|██████████| 1769/1769 [14:07<00:00, 2.09it/s, Loss=7.592, bbox\_mAP=0.535, kpt\_mAP=0.238]

100%|██████████| 37/37 [00:27<00:00, 1.33it/s, Loss=6.921, bbox\_mAP=0.617, kpt\_mAP=0.338]

Epoch: 64/100

100%|██████████| 1769/1769 [14:10<00:00, 2.08it/s, Loss=7.589, bbox\_mAP=0.534, kpt\_mAP=0.242]

100%|██████████| 37/37 [00:28<00:00, 1.31it/s, Loss=7.072, bbox\_mAP=0.604, kpt\_mAP=0.334]

Epoch: 65/100

100%|██████████| 1769/1769 [14:07<00:00, 2.09it/s, Loss=7.572, bbox\_mAP=0.541, kpt\_mAP=0.245]

100%|██████████| 37/37 [00:28<00:00, 1.31it/s, Loss=6.934, bbox\_mAP=0.618, kpt\_mAP=0.342]

Epoch: 66/100

100%|██████████| 1769/1769 [14:08<00:00, 2.08it/s, Loss=7.514, bbox\_mAP=0.544, kpt\_mAP=0.247]

100%|██████████| 37/37 [00:27<00:00, 1.33it/s, Loss=6.867, bbox\_mAP=0.621, kpt\_mAP=0.339]

Epoch: 67/100

100%|██████████| 1769/1769 [14:03<00:00, 2.10it/s, Loss=7.534, bbox\_mAP=0.540, kpt\_mAP=0.243]

100%|██████████| 37/37 [00:28<00:00, 1.31it/s, Loss=6.901, bbox\_mAP=0.620, kpt\_mAP=0.339]

Epoch: 68/100

100%|██████████| 1769/1769 [14:04<00:00, 2.10it/s, Loss=7.482, bbox\_mAP=0.544, kpt\_mAP=0.252]

100%|██████████| 37/37 [00:29<00:00, 1.24it/s, Loss=6.825, bbox\_mAP=0.625, kpt\_mAP=0.348]

Epoch: 69/100

100%|██████████| 1769/1769 [14:07<00:00, 2.09it/s, Loss=7.463, bbox\_mAP=0.537, kpt\_mAP=0.248]

100%|██████████| 37/37 [00:27<00:00, 1.32it/s, Loss=6.806, bbox\_mAP=0.624, kpt\_mAP=0.349]

Epoch: 70/100

100%|██████████| 1769/1769 [14:12<00:00, 2.08it/s, Loss=7.441, bbox\_mAP=0.547, kpt\_mAP=0.258]

100%|██████████| 37/37 [00:27<00:00, 1.33it/s, Loss=6.737, bbox\_mAP=0.624, kpt\_mAP=0.356]

Epoch: 71/100

100%|██████████| 1769/1769 [14:07<00:00, 2.09it/s, Loss=7.436, bbox\_mAP=0.540, kpt\_mAP=0.248]

100%|██████████| 37/37 [00:31<00:00, 1.19it/s, Loss=6.761, bbox\_mAP=0.629, kpt\_mAP=0.354]

Epoch: 72/100

100%|██████████| 1769/1769 [14:12<00:00, 2.07it/s, Loss=7.423, bbox\_mAP=0.545, kpt\_mAP=0.257]

100%|██████████| 37/37 [00:27<00:00, 1.32it/s, Loss=6.781, bbox\_mAP=0.625, kpt\_mAP=0.355]

Epoch: 73/100

100%|██████████| 1769/1769 [14:06<00:00, 2.09it/s, Loss=7.378, bbox\_mAP=0.552, kpt\_mAP=0.266]

100%|██████████| 37/37 [00:28<00:00, 1.29it/s, Loss=6.736, bbox\_mAP=0.631, kpt\_mAP=0.354]

Epoch: 74/100

100%|██████████| 1769/1769 [14:09<00:00, 2.08it/s, Loss=7.367, bbox\_mAP=0.550, kpt\_mAP=0.263]

100%|██████████| 37/37 [00:29<00:00, 1.25it/s, Loss=6.704, bbox\_mAP=0.628, kpt\_mAP=0.363]

Epoch: 75/100

100%|██████████| 1769/1769 [14:06<00:00, 2.09it/s, Loss=7.350, bbox\_mAP=0.548, kpt\_mAP=0.260]

100%|██████████| 37/37 [00:27<00:00, 1.33it/s, Loss=6.717, bbox\_mAP=0.627, kpt\_mAP=0.353]

Epoch: 76/100

100%|██████████| 1769/1769 [14:08<00:00, 2.09it/s, Loss=7.321, bbox\_mAP=0.555, kpt\_mAP=0.263]

100%|██████████| 37/37 [00:27<00:00, 1.32it/s, Loss=6.650, bbox\_mAP=0.632, kpt\_mAP=0.364]

Epoch: 77/100

100%|██████████| 1769/1769 [13:59<00:00, 2.11it/s, Loss=7.307, bbox\_mAP=0.552, kpt\_mAP=0.263]

100%|██████████| 37/37 [00:28<00:00, 1.32it/s, Loss=6.716, bbox\_mAP=0.627, kpt\_mAP=0.363]

Epoch: 78/100

100%|██████████| 1769/1769 [14:07<00:00, 2.09it/s, Loss=7.275, bbox\_mAP=0.553, kpt\_mAP=0.268]

100%|██████████| 37/37 [00:28<00:00, 1.30it/s, Loss=6.621, bbox\_mAP=0.631, kpt\_mAP=0.373]

Epoch: 79/100

100%|██████████| 1769/1769 [14:09<00:00, 2.08it/s, Loss=7.230, bbox\_mAP=0.559, kpt\_mAP=0.274]

100%|██████████| 37/37 [00:28<00:00, 1.31it/s, Loss=6.613, bbox\_mAP=0.635, kpt\_mAP=0.376]

Epoch: 80/100

100%|██████████| 1769/1769 [14:11<00:00, 2.08it/s, Loss=7.214, bbox\_mAP=0.556, kpt\_mAP=0.276]

100%|██████████| 37/37 [00:28<00:00, 1.29it/s, Loss=6.596, bbox\_mAP=0.634, kpt\_mAP=0.368]

Epoch: 81/100

100%|██████████| 1769/1769 [14:06<00:00, 2.09it/s, Loss=7.178, bbox\_mAP=0.562, kpt\_mAP=0.280]

100%|██████████| 37/37 [00:28<00:00, 1.29it/s, Loss=6.571, bbox\_mAP=0.639, kpt\_mAP=0.374]

Epoch: 82/100

100%|██████████| 1769/1769 [14:15<00:00, 2.07it/s, Loss=7.162, bbox\_mAP=0.558, kpt\_mAP=0.277]

100%|██████████| 37/37 [00:29<00:00, 1.25it/s, Loss=6.557, bbox\_mAP=0.638, kpt\_mAP=0.370]

Epoch: 83/100

100%|██████████| 1769/1769 [14:15<00:00, 2.07it/s, Loss=7.150, bbox\_mAP=0.560, kpt\_mAP=0.273]

100%|██████████| 37/37 [00:28<00:00, 1.32it/s, Loss=6.583, bbox\_mAP=0.636, kpt\_mAP=0.376]

Epoch: 84/100

100%|██████████| 1769/1769 [14:18<00:00, 2.06it/s, Loss=7.116, bbox\_mAP=0.559, kpt\_mAP=0.280]

100%|██████████| 37/37 [00:28<00:00, 1.30it/s, Loss=6.446, bbox\_mAP=0.643, kpt\_mAP=0.383]

Epoch: 85/100

100%|██████████| 1769/1769 [14:17<00:00, 2.06it/s, Loss=7.093, bbox\_mAP=0.562, kpt\_mAP=0.287]

100%|██████████| 37/37 [00:28<00:00, 1.31it/s, Loss=6.447, bbox\_mAP=0.642, kpt\_mAP=0.386]

Epoch: 86/100

100%|██████████| 1769/1769 [14:10<00:00, 2.08it/s, Loss=7.074, bbox\_mAP=0.567, kpt\_mAP=0.283]

100%|██████████| 37/37 [00:29<00:00, 1.26it/s, Loss=6.439, bbox\_mAP=0.641, kpt\_mAP=0.392]

Epoch: 87/100

100%|██████████| 1769/1769 [34:15<00:00, 1.16s/it, Loss=7.030, bbox\_mAP=0.566, kpt\_mAP=0.289]

100%|██████████| 37/37 [00:28<00:00, 1.28it/s, Loss=6.464, bbox\_mAP=0.639, kpt\_mAP=0.385]

Epoch: 88/100

100%|██████████| 1769/1769 [13:27<00:00, 2.19it/s, Loss=6.999, bbox\_mAP=0.569, kpt\_mAP=0.290]

100%|██████████| 37/37 [00:30<00:00, 1.20it/s, Loss=6.415, bbox\_mAP=0.642, kpt\_mAP=0.391]

Epoch: 89/100

100%|██████████| 1769/1769 [13:58<00:00, 2.11it/s, Loss=6.966, bbox\_mAP=0.568, kpt\_mAP=0.292]

100%|██████████| 37/37 [00:29<00:00, 1.24it/s, Loss=6.376, bbox\_mAP=0.645, kpt\_mAP=0.395]

Epoch: 90/100

100%|██████████| 1769/1769 [14:53<00:00, 1.98it/s, Loss=6.953, bbox\_mAP=0.573, kpt\_mAP=0.295]

100%|██████████| 37/37 [00:29<00:00, 1.27it/s, Loss=6.347, bbox\_mAP=0.645, kpt\_mAP=0.393]

Epoch: 91/100

100%|██████████| 1769/1769 [14:24<00:00, 2.05it/s, Loss=6.936, bbox\_mAP=0.569, kpt\_mAP=0.293]

100%|██████████| 37/37 [00:29<00:00, 1.27it/s, Loss=6.343, bbox\_mAP=0.649, kpt\_mAP=0.399]

Epoch: 92/100

100%|██████████| 1769/1769 [16:09<00:00, 1.82it/s, Loss=6.889, bbox\_mAP=0.576, kpt\_mAP=0.300]

100%|██████████| 37/37 [00:36<00:00, 1.01it/s, Loss=6.297, bbox\_mAP=0.652, kpt\_mAP=0.400]

Epoch: 93/100

100%|██████████| 1769/1769 [16:15<00:00, 1.81it/s, Loss=6.864, bbox\_mAP=0.577, kpt\_mAP=0.302]

100%|██████████| 37/37 [00:38<00:00, 1.03s/it, Loss=6.287, bbox\_mAP=0.651, kpt\_mAP=0.403]

Epoch: 94/100

100%|██████████| 1769/1769 [17:27<00:00, 1.69it/s, Loss=6.856, bbox\_mAP=0.583, kpt\_mAP=0.303]

100%|██████████| 37/37 [00:36<00:00, 1.02it/s, Loss=6.248, bbox\_mAP=0.655, kpt\_mAP=0.407]

Epoch: 95/100

100%|██████████| 1769/1769 [17:11<00:00, 1.72it/s, Loss=6.807, bbox\_mAP=0.582, kpt\_mAP=0.307]

100%|██████████| 37/37 [00:29<00:00, 1.27it/s, Loss=6.206, bbox\_mAP=0.655, kpt\_mAP=0.409]

Epoch: 96/100

100%|██████████| 1769/1769 [14:24<00:00, 2.05it/s, Loss=6.806, bbox\_mAP=0.575, kpt\_mAP=0.302]

100%|██████████| 37/37 [00:29<00:00, 1.27it/s, Loss=6.174, bbox\_mAP=0.658, kpt\_mAP=0.414]

Epoch: 97/100

100%|██████████| 1769/1769 [14:48<00:00, 1.99it/s, Loss=6.758, bbox\_mAP=0.582, kpt\_mAP=0.311]

100%|██████████| 37/37 [00:29<00:00, 1.25it/s, Loss=6.146, bbox\_mAP=0.658, kpt\_mAP=0.413]

Epoch: 98/100

100%|██████████| 1769/1769 [14:15<00:00, 2.07it/s, Loss=6.727, bbox\_mAP=0.587, kpt\_mAP=0.312]

100%|██████████| 37/37 [00:29<00:00, 1.24it/s, Loss=6.097, bbox\_mAP=0.661, kpt\_mAP=0.419]

Epoch: 99/100

100%|██████████| 1769/1769 [14:11<00:00, 2.08it/s, Loss=6.706, bbox\_mAP=0.586, kpt\_mAP=0.318]

100%|██████████| 37/37 [00:28<00:00, 1.28it/s, Loss=6.098, bbox\_mAP=0.660, kpt\_mAP=0.420]

Epoch: 100/100

100%|██████████| 1769/1769 [13:59<00:00, 2.11it/s, Loss=6.680, bbox\_mAP=0.587, kpt\_mAP=0.317]

100%|██████████| 37/37 [00:28<00:00, 1.29it/s, Loss=6.063, bbox\_mAP=0.662, kpt\_mAP=0.424]

**Valid Performance (trained yolo\_v8\_n)**

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**Valid Performance (official v8\_m)**

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