Machine Learning Models

Layer (type)	Output Shape	Param #	Connected to
input_17 (InputLayer)	[(None, 192)]	0	[]
dense_64 (Dense)	(None, 96)		['input_17[0][0]']
dense_65 (Dense)	(None, 48)	4656	['dense_64[0][0]']
dense_66 (Dense)	(None, 24)	1176	['dense_65[0][0]']
dense_67 (Dense)	(None, 12)	300	['dense_66[0][0]']
xy (Dense)	(None, 2)		['dense_67[0][0]']
theta (Dense)	(None, 1)		['dense_67[0][0]']
Fotal params: 24,699 Frainable params: 24,699 Non-trainable params: 0			

Model 1

Layer (type)	Output Shape	Param #	Connected to
input_18 (InputLayer)	[(None, 192)]	0	[]
dense_68 (Dense)	(None, 192)	37056	['input_18[0][0]']
dense_69 (Dense)	(None, 96)		['dense_68[0][0]']
dense_70 (Dense)	(None, 48)	4656	['dense_69[0][0]']
dense_71 (Dense)	(None, 24)	1176	['dense_70[0][0]']
dense_72 (Dense)	(None, 12)	300	['dense_71[0][0]']
xy (Dense)	(None, 2)		['dense_72[0][0]']
theta (Dense)	(None, 1)		['dense_72[0][0]']
Total params: 61,755 Trainable params: 61,755 Non-trainable params: 0			

Model 2

Layer (type)	Output Shape	Param #	Connected to
input_21 (InputLayer)	[(None, 192)]	0	[]
dense_81 (Dense)	(None, 256)	49408	['input_21[0][0]']
dense_82 (Dense)	(None, 128)	32896	['dense_81[0][0]']
dense_83 (Dense)	(None, 64)		['dense_82[0][0]']
dense_84 (Dense)	(None, 32)	2080	['dense_83[0][0]']
dense_85 (Dense)	(None, 24)		['dense_84[0][0]']
dense_86 (Dense)	(None, 12)	300	['dense_85[0][0]']
xy (Dense)	(None, 2)		['dense_86[0][0]']
theta (Dense)	(None, 1)		['dense_86[0][0]']
otal params: 93,771 rainable params: 93,771 lon-trainable params: 0			

Model 3

Layer (type) 	Output Shape	Param #	Connected to
input_22 (InputLayer)	[(None, 192)]		[]
dense_87 (Dense)	(None, 320)	61760	['input_22[0][0]']
dense_88 (Dense)	(None, 160)	51360	['dense_87[0][0]']
dense_89 (Dense)	(None, 80)	12880	['dense_88[0][0]']
dense_90 (Dense)	(None, 40)	3240	['dense_89[0][0]']
dense_91 (Dense)	(None, 20)	820	['dense_90[0][0]']
dense_92 (Dense)	(None, 12)		['dense_91[0][0]']
xy (Dense)	(None, 2)		['dense_92[0][0]']
theta (Dense)	(None, 1)		['dense_92[0][0]']
 otal params: 130,351			
rainable params: 130,351			
on-trainable params: 0			

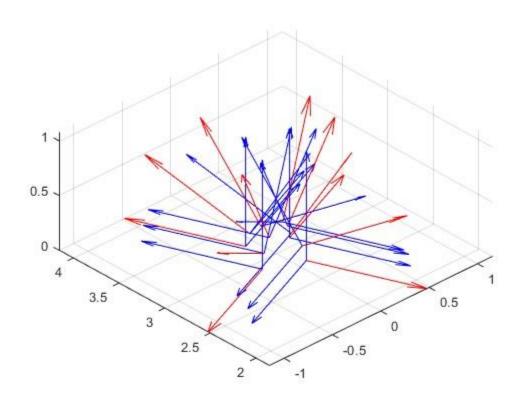
Model 4

yer (type)	Output Shape	Param #	Connected to
put_23 (InputLayer)	[(None, 192)]		[]
nse_93 (Dense)	(None, 400)	77200	['input_23[0][0]']
nse_94 (Dense)	(None, 200)	80200	['dense_93[0][0]']
nse_95 (Dense)	(None, 100)	20100	['dense_94[0][0]']
nse_96 (Dense)	(None, 50)	5050	['dense_95[0][0]']
nse_97 (Dense)	(None, 25)		['dense_96[0][0]']
nse_98 (Dense)	(None, 12)		['dense_97[0][0]']
(Dense)	(None, 2)		['dense_98[0][0]']
eta (Dense)	(None, 1)		['dense_98[0][0]']

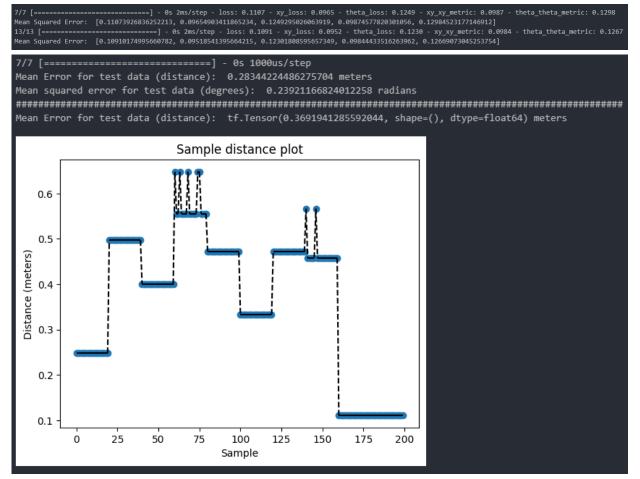
Model 5

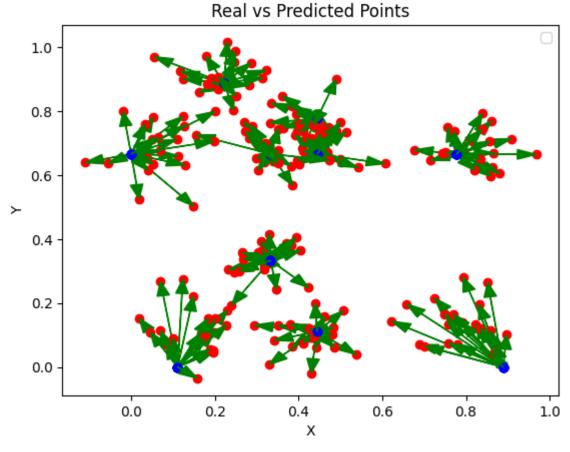
Layer (type)	Output Shape	Param #	Connected to
input_24 (InputLayer)	[(None, 192)]	0	[]
dense_99 (Dense)	(None, 480)	92640	['input_24[0][0]']
dense_100 (Dense)	(None, 240)	115440	['dense_99[0][0]']
dense_101 (Dense)	(None, 120)	28920	['dense_100[0][0]']
dense_102 (Dense)	(None, 60)	7260	['dense_101[0][0]']
dense_103 (Dense)	(None, 30)		['dense_102[0][0]']
dense_104 (Dense)	(None, 12)		['dense_103[0][0]']
xy (Dense)	(None, 2)		['dense_104[0][0]']
theta (Dense)	(None, 1)		['dense_104[0][0]']
Total params: 246,501 Trainable params: 246,501 Non-trainable params: 0			

Model 6

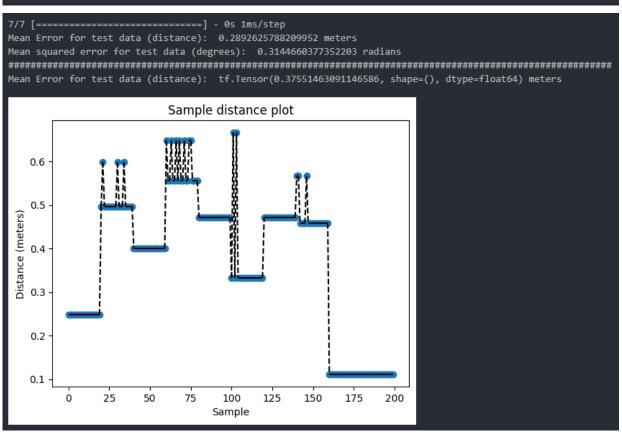


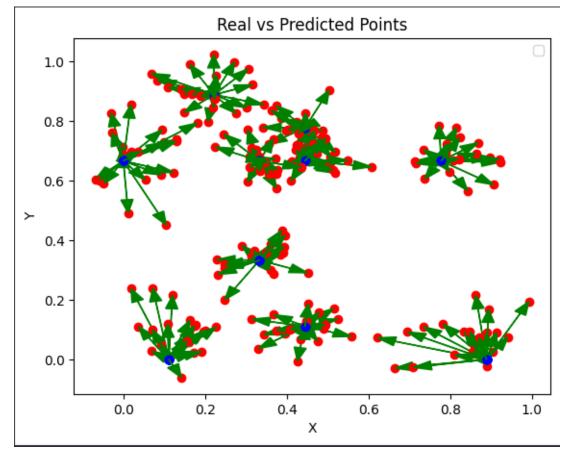
Model 1





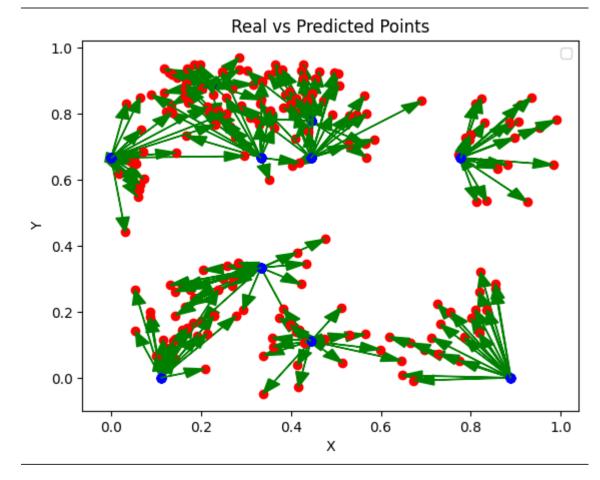
Model 2





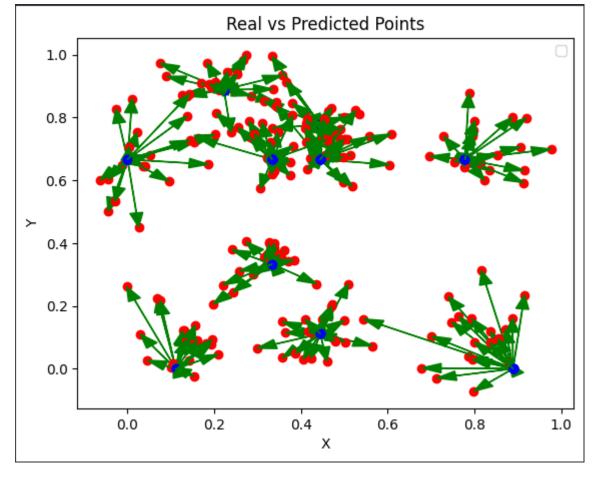
Model 3



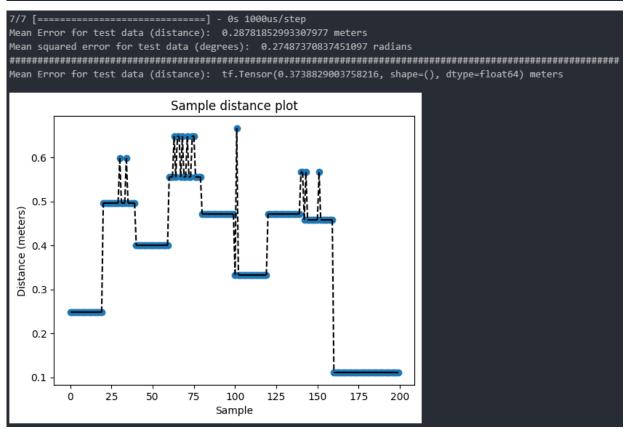


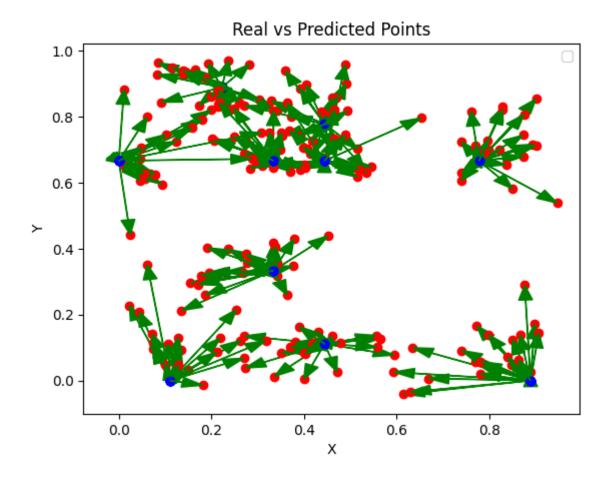
Model 4





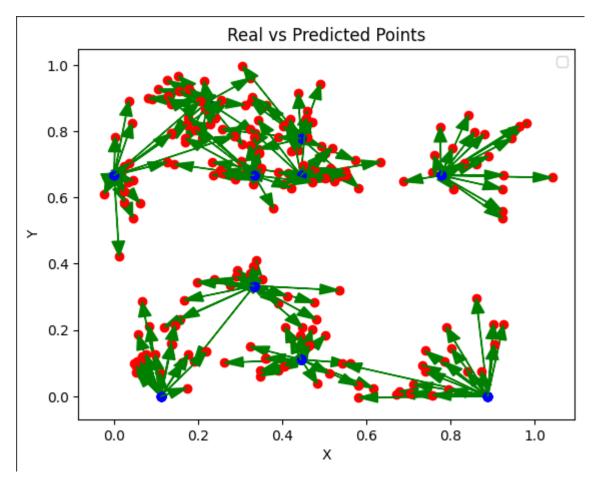
Model 5

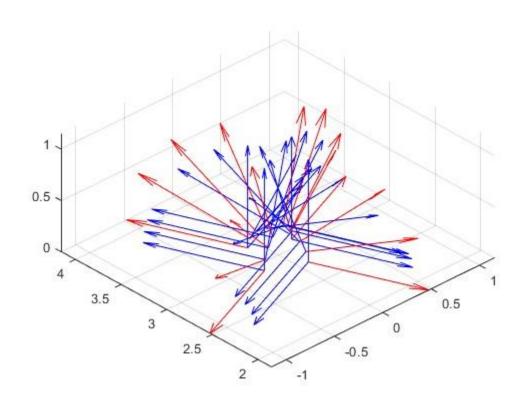




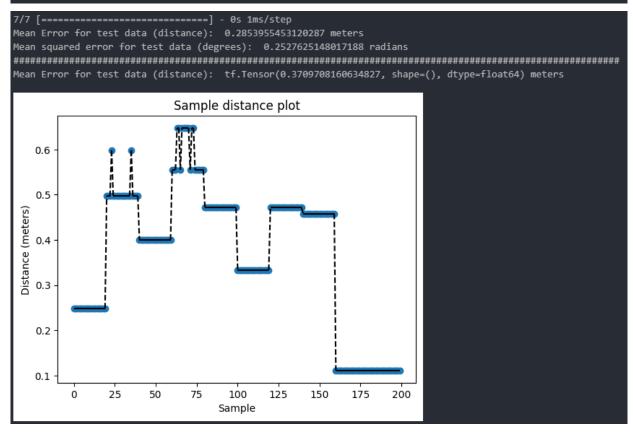
Model 6

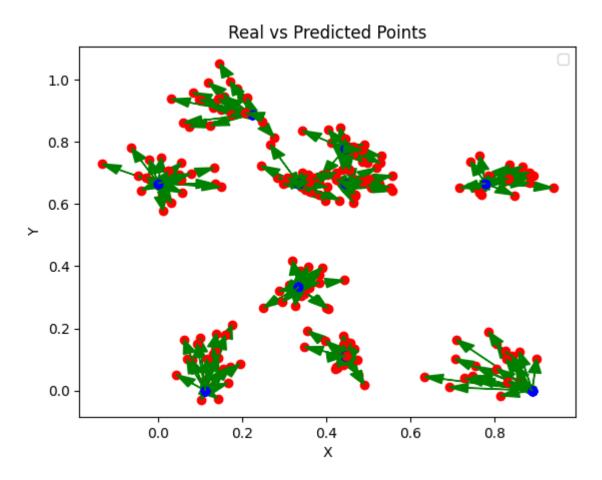




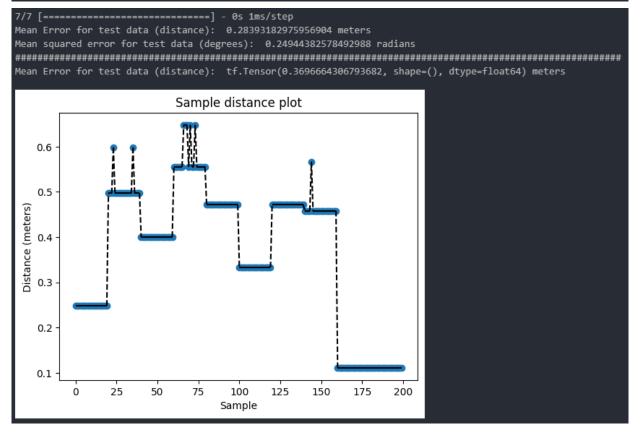


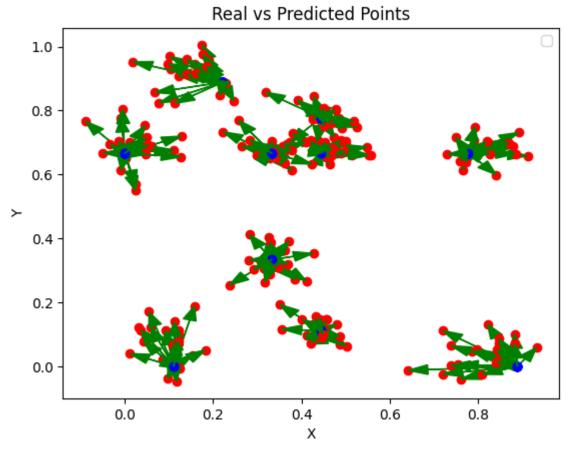
Model 1



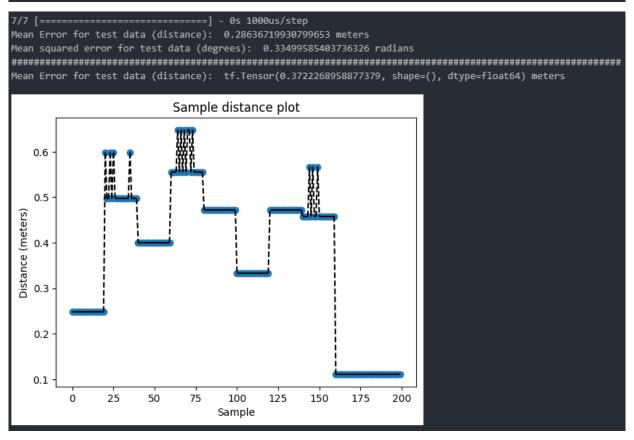


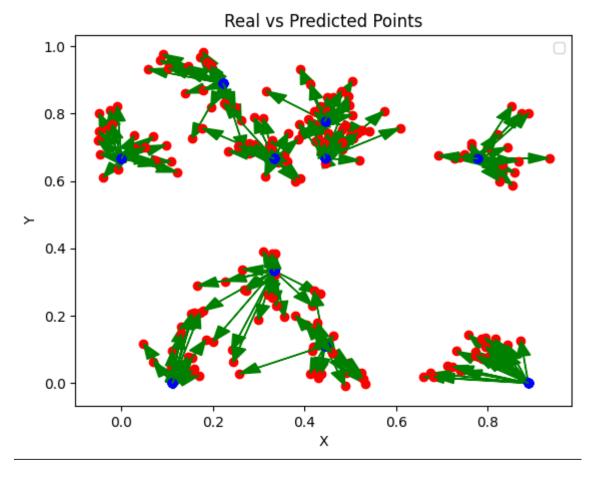
Model 2





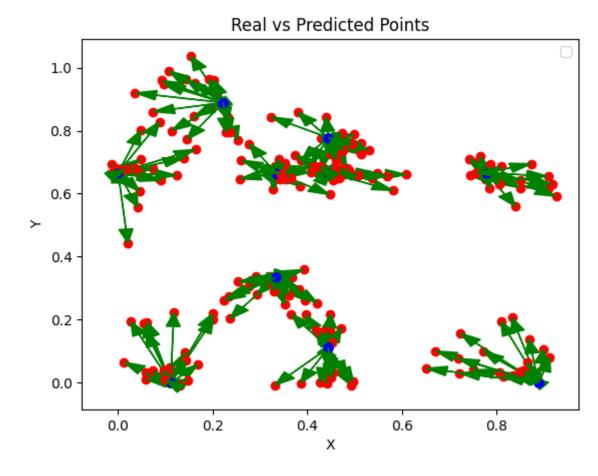
Model 3





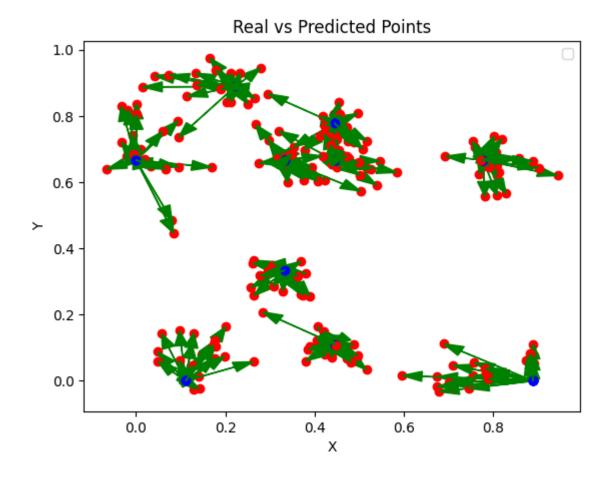
Model 4



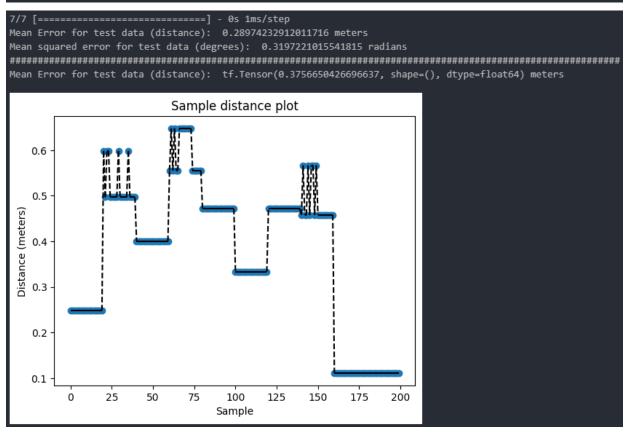


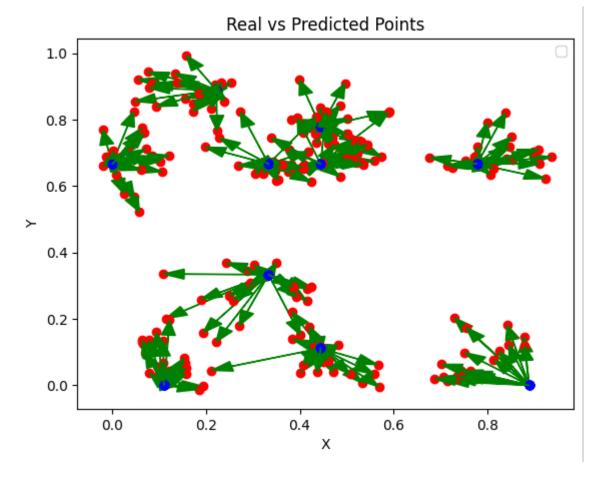
Model 5

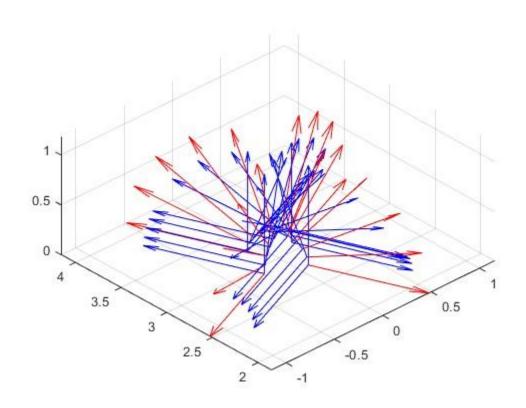




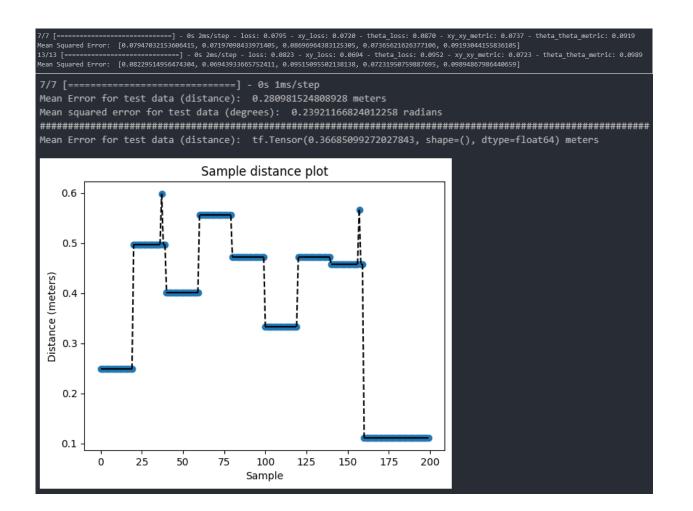
Model 6

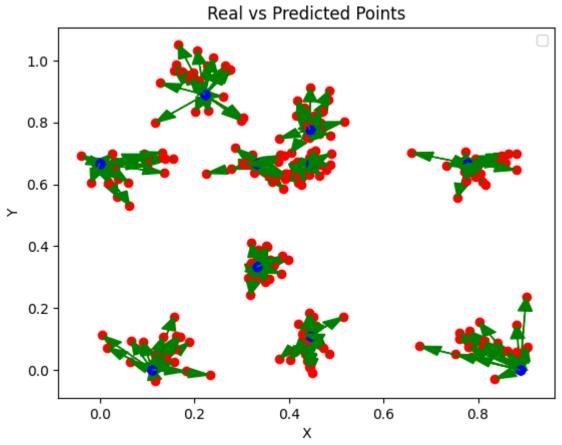




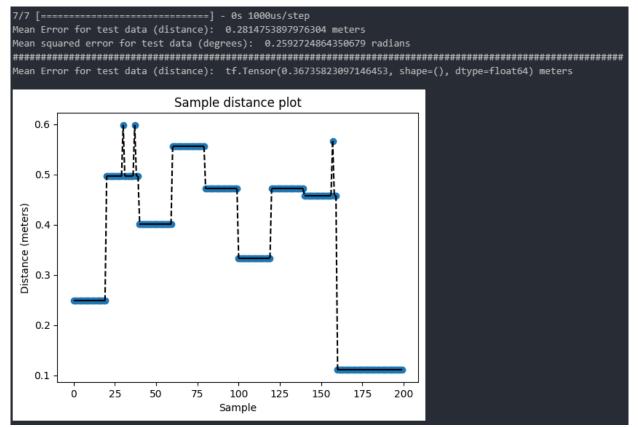


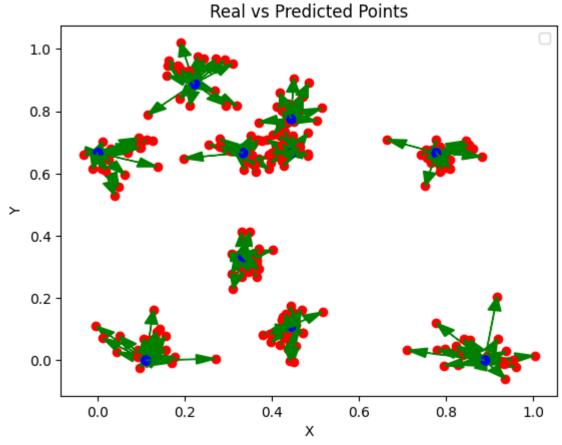
Model 1



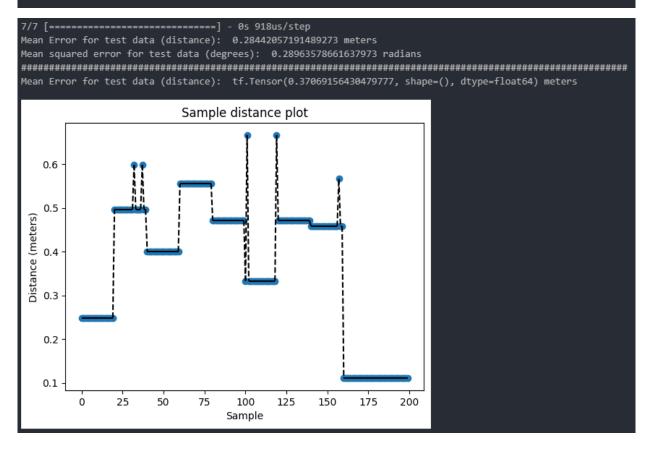


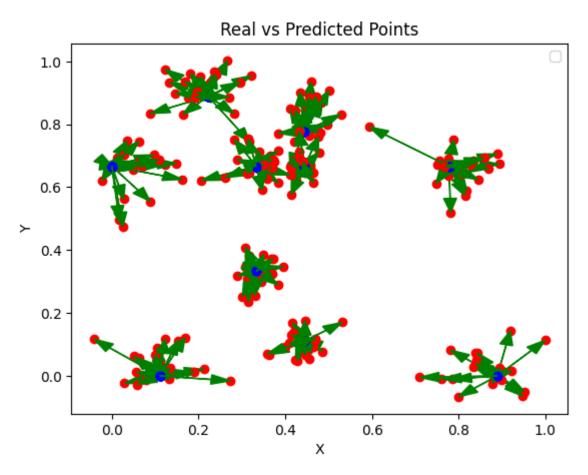
Model 2



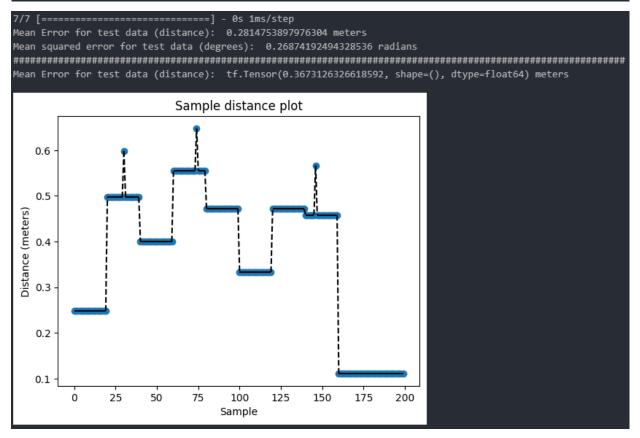


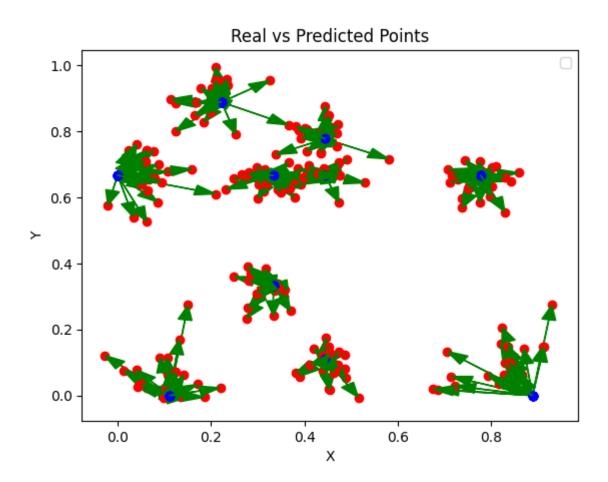
Model 3



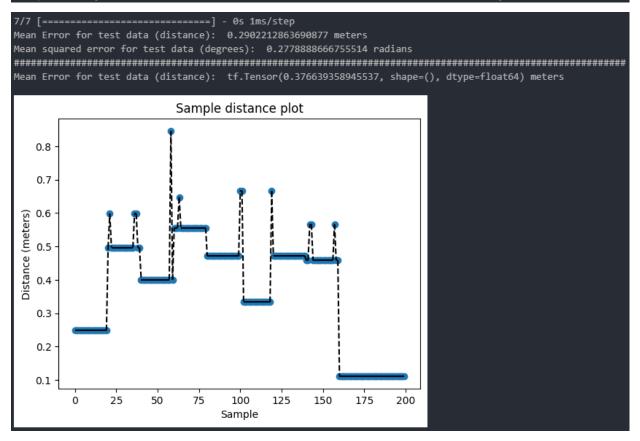


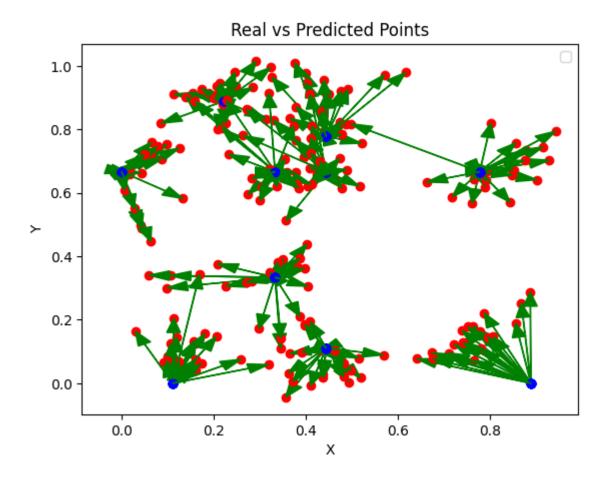
Model 4



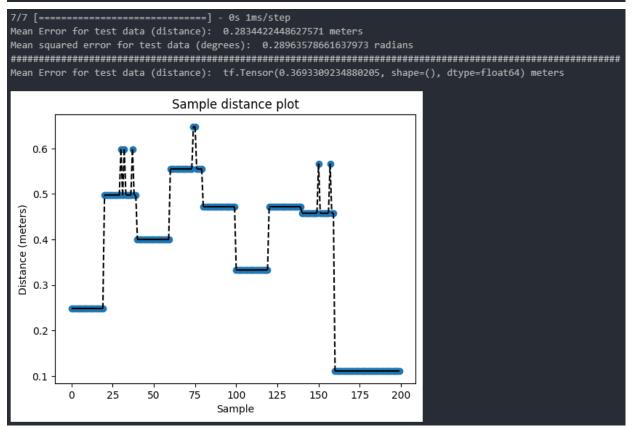


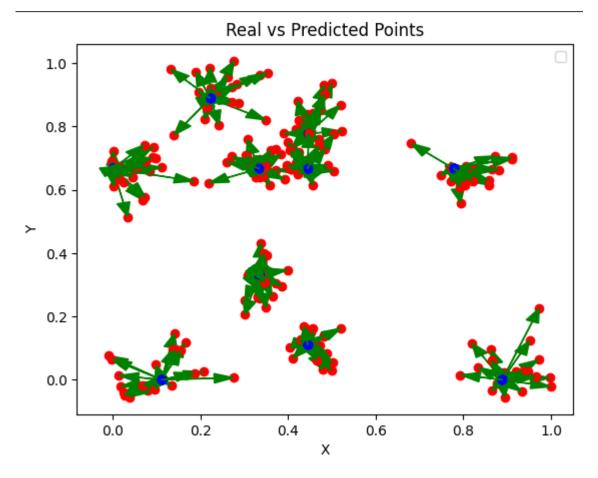
Model 5

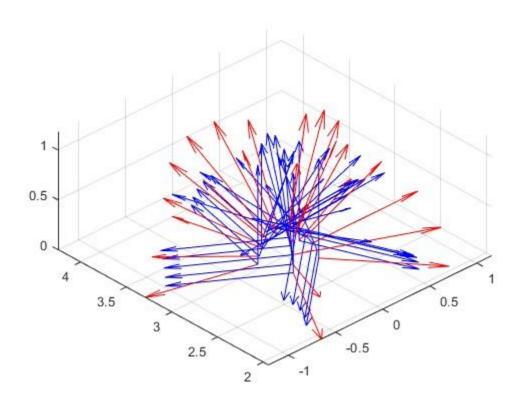




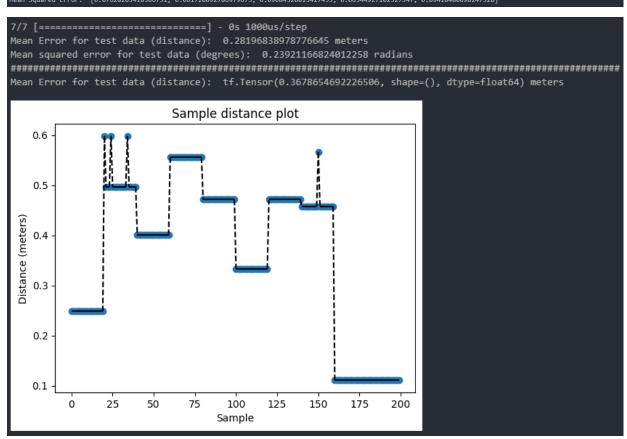
Model 6

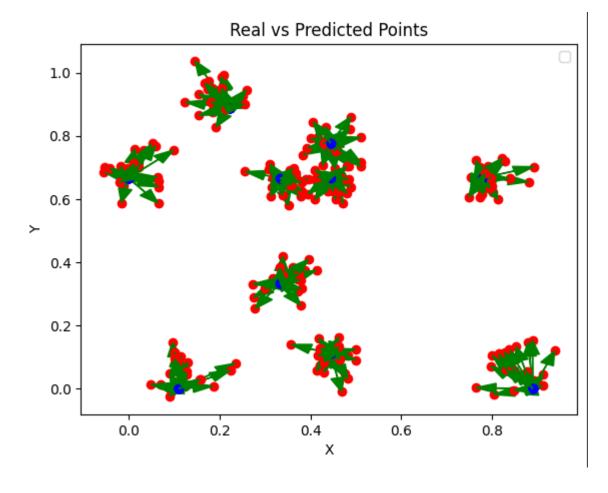




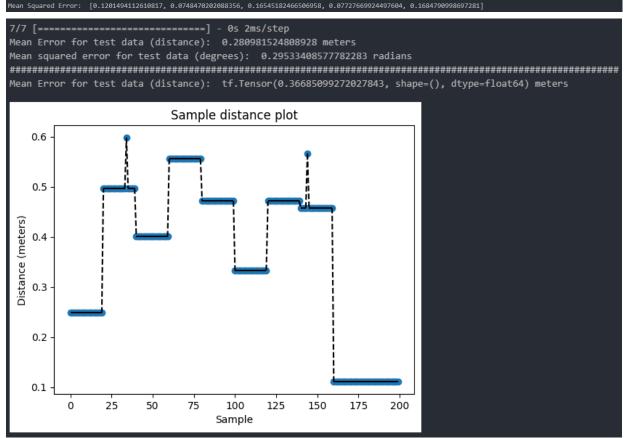


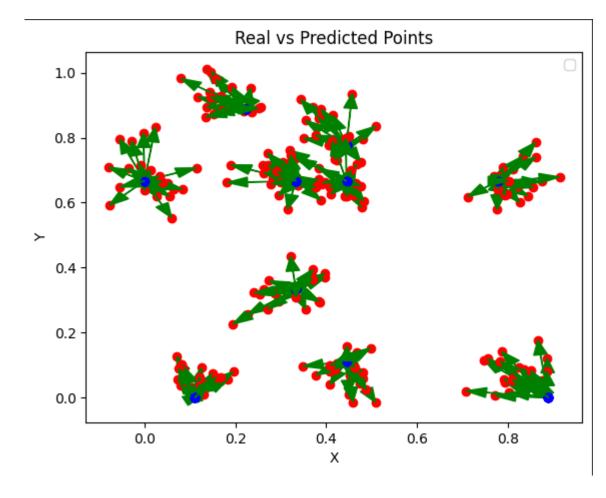
Model 1



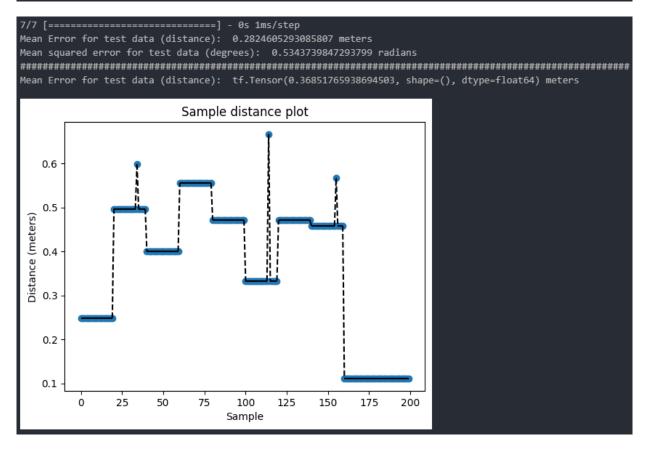


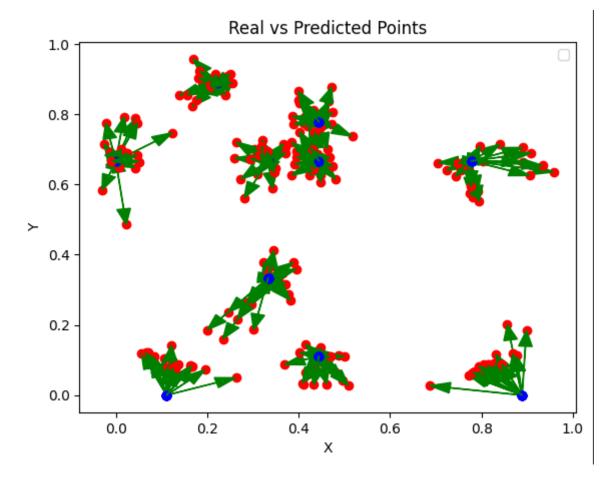
Model 2



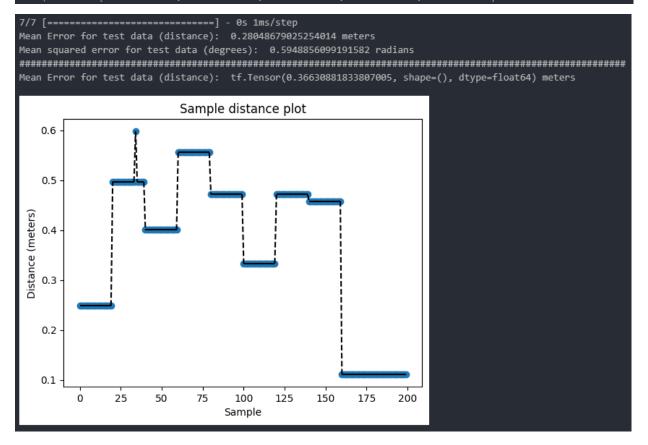


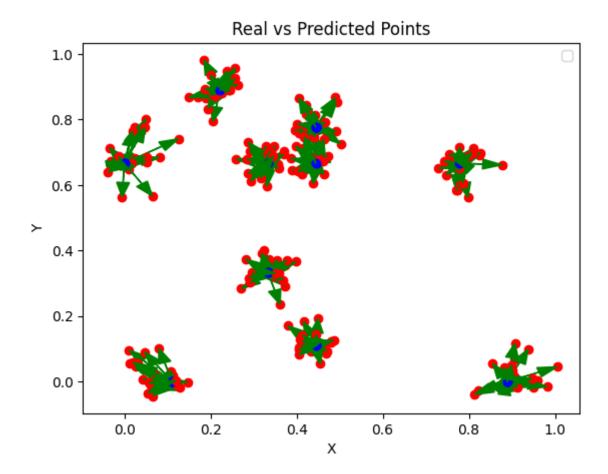
Model 3



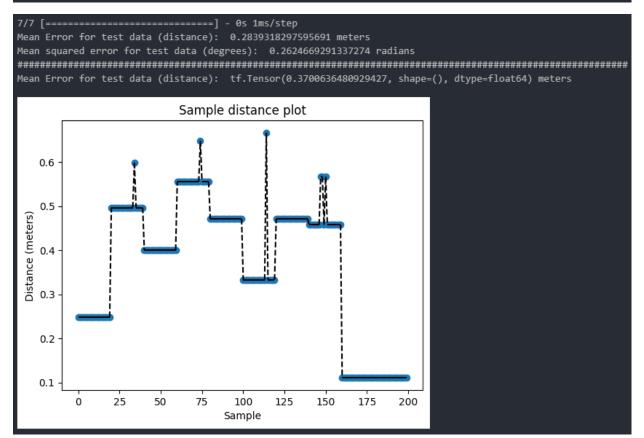


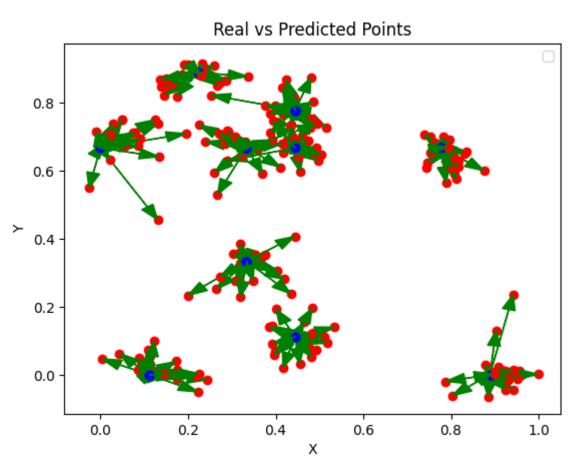
Model 4





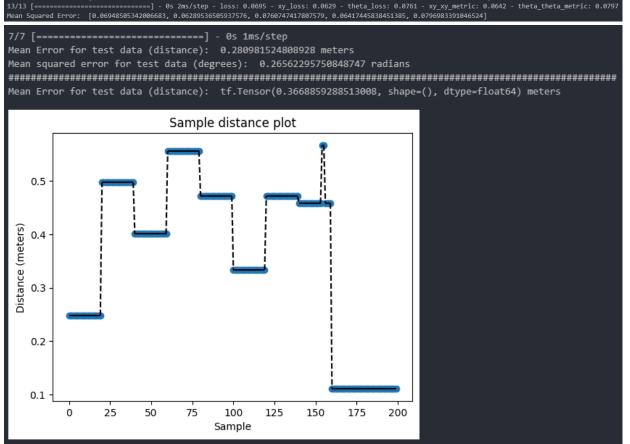
Model 5

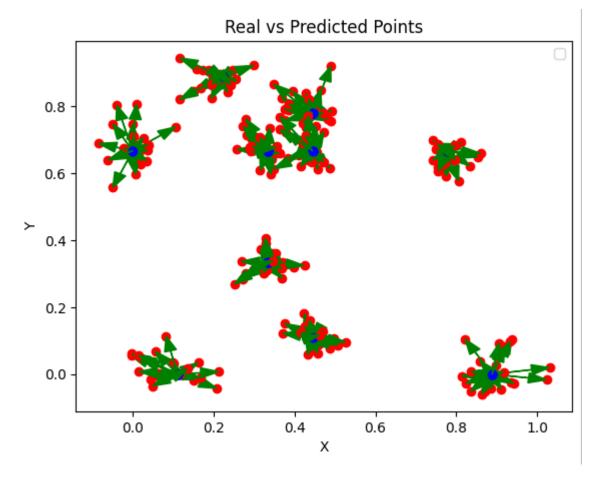


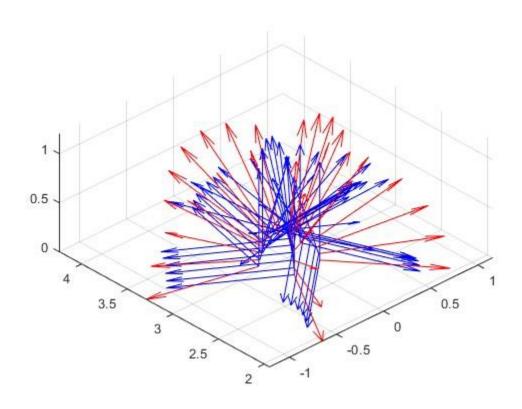


Model 6

7/7 [===============] - 0s 2ms/step - loss: 0.0630 - xy loss: 0.0583 - theta loss: 0.0677 - xy xy metric: 0.0608 - theta theta metric: 0.0693 Mean Squared Error: [0.06303418427705765, 0.05834252014756203, 0.06772584468126297, 0.06081566587090492, 0.0602763552069664] 13/13 [===================] - 0s 2ms/step - loss: 0.0695 - xy_loss: 0.0629 - theta_loss: 0.0761 - xy_xy_metric: 0.0642 - theta_theta_metric: 0.0797 Mean Squared Error: [0.06948505342006683, 0.06289536505937576, 0.0760747417807579, 0.06417445838451385, 0.0796983391046524]

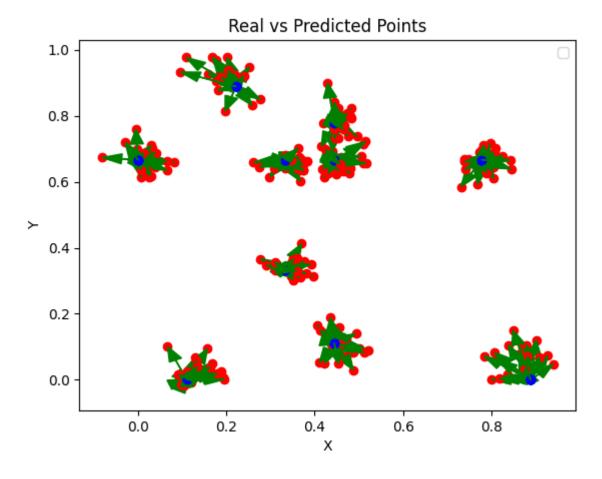




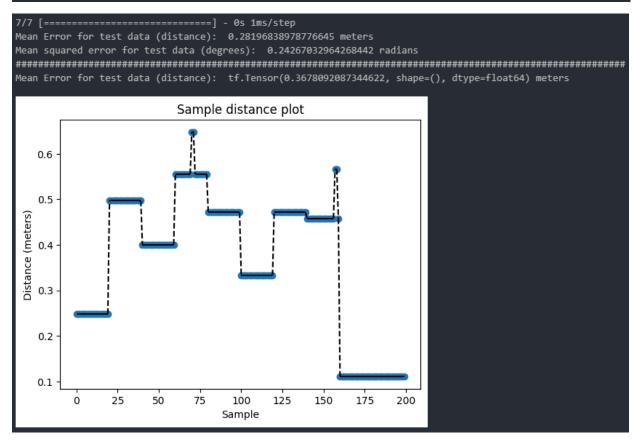


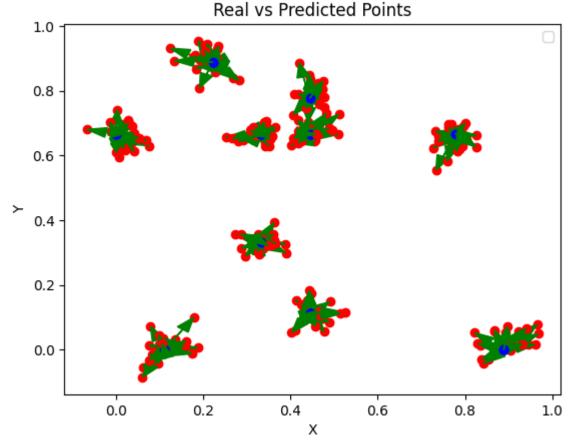
Model 1



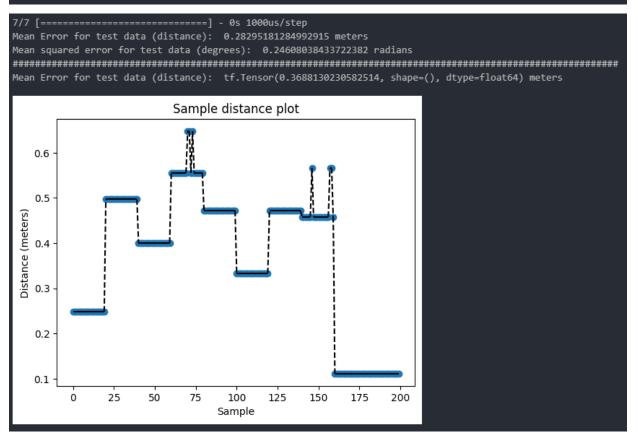


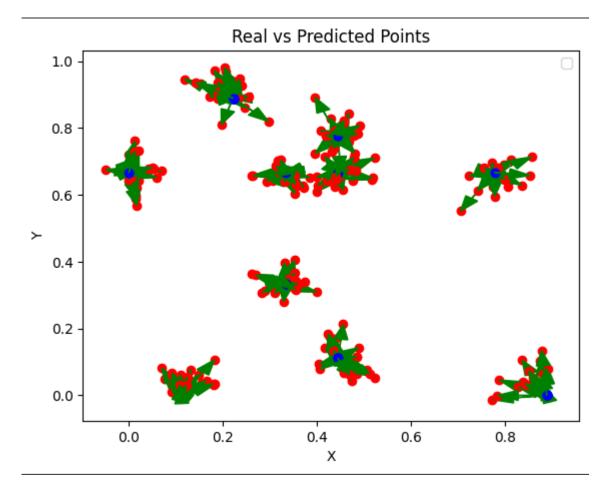
Model 2



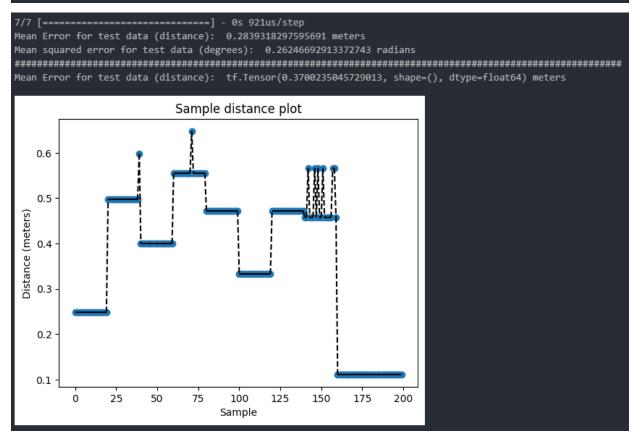


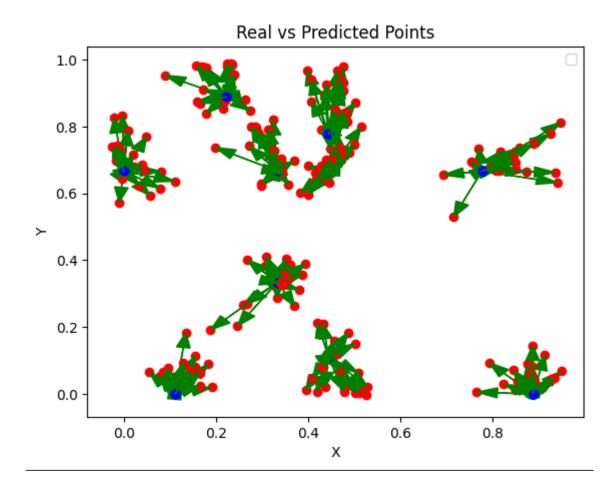
Model 3



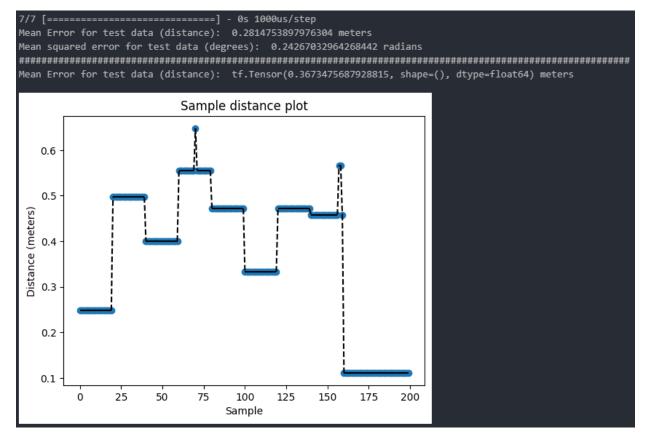


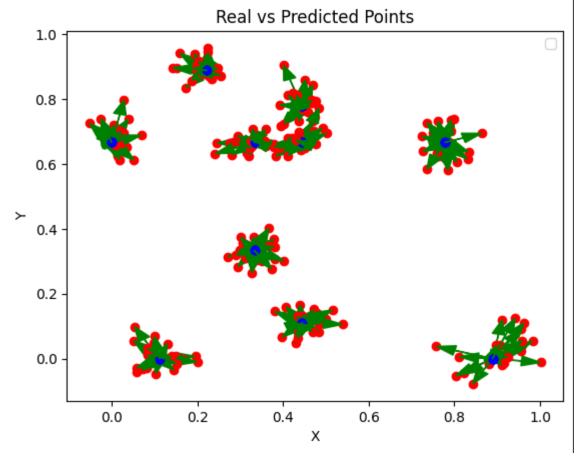
Model 4





Model 5





Model 6

