





















Practical Course AI Status Sprint 15

2021/03/01

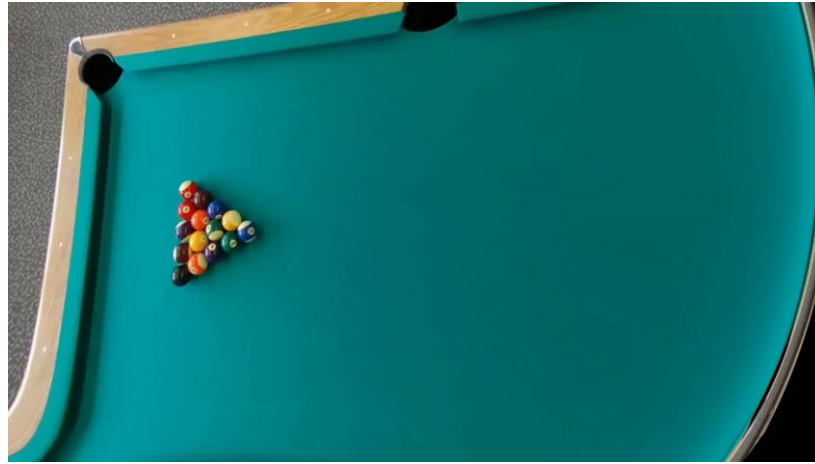
Thomas Monninger, Stefan Bolz, Zuohao Chen,
Samhita Ganguly, Ashish Nagi

Dataset Generation (AN, SG, SB)

- Updated yaml file for all the remaining clips
- Complete dataset generation (>2600 csv files)

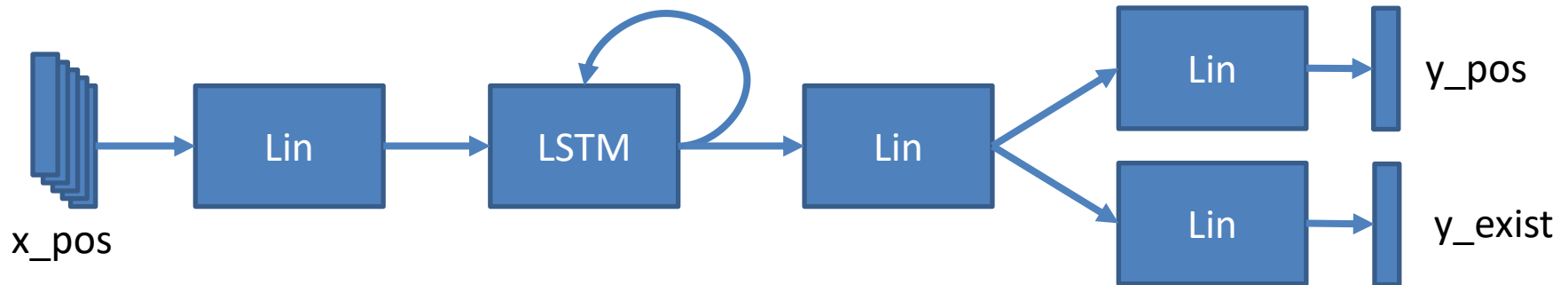
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	dataset_new1_11_strike_1.csv
	dataset_new1_11_strike_1_horizontal.csv
	dataset_new1_11_strike_1_vertical.csv
	dataset_new1_11_strike_1_vertical_horizontal.csv
	dataset_new1_12_strike_1.csv
	dataset_new1_12_strike_1_horizontal.csv
	dataset_new1_12_strike_1_vertical.csv
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	dataset_new1_14_strike_1.csv
	dataset_new1_14_strike_1_horizontal.csv
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Process test video (ZC, AN)



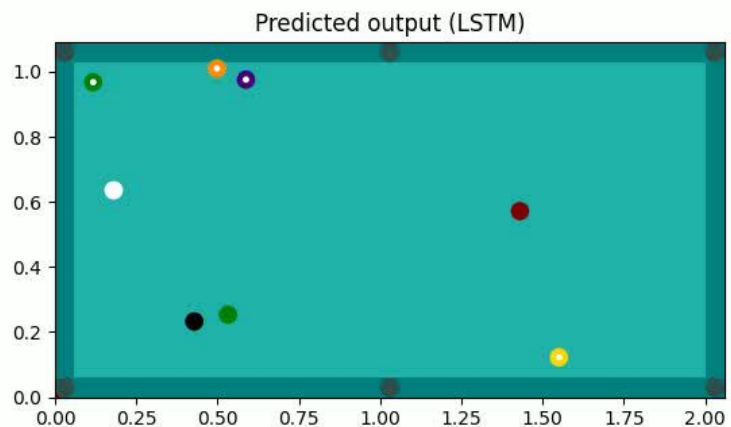
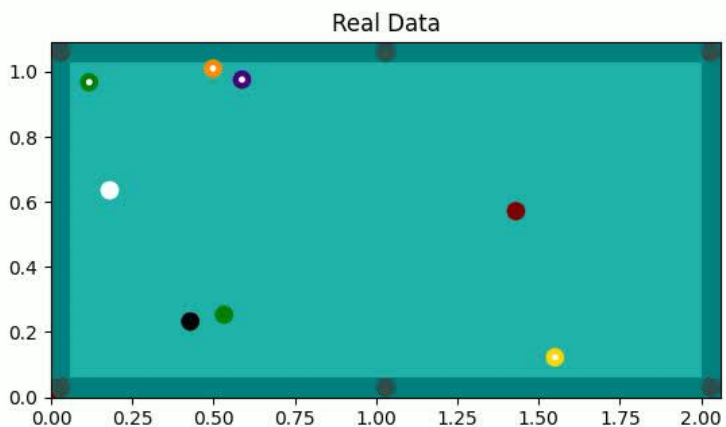
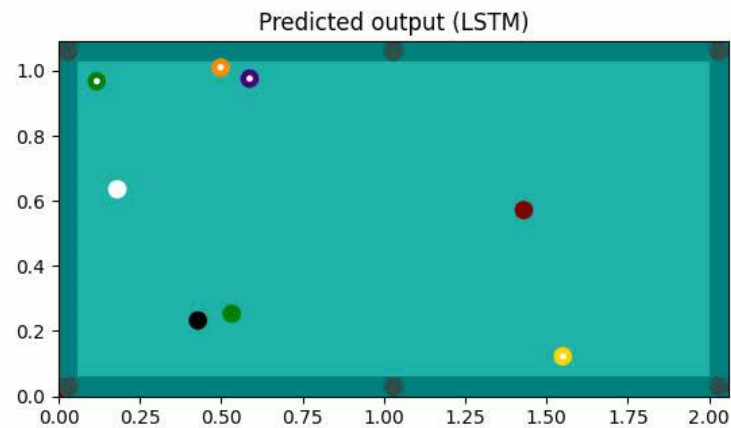
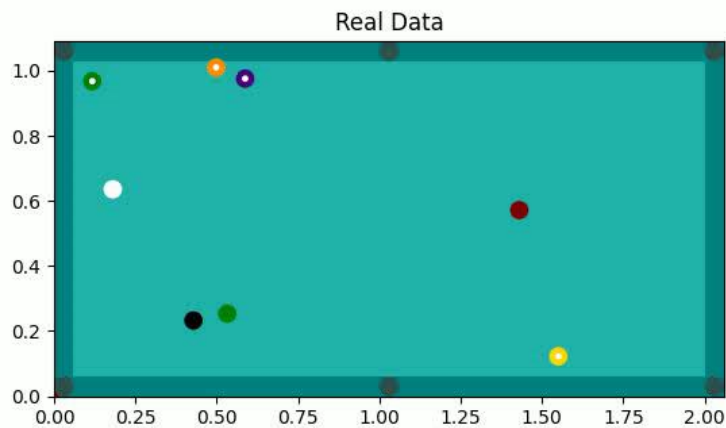
Model architecture (TM)

- Change network architecture



- Extend outputs
 - [1x32] ball positions (no nonlinearity)
 - [1x16] ball existence (sigmoid)
- Adapt loss function (joint)

Training (SB)



Outlook

- Train implemented architectures on new data
 - Use implemented multi-step prediction loss
 - Tune hyperparameters
 - Evaluate and compare model architectures
- Create evaluation report