12.12.2021

Meeting summary – Ariel Nitzan and Yoav

Some interesting points that came up in the meeting:

* If RNN will not fit better for lower IQ participants – it might strength the hypo that they are nosier in their decisions but not eliminate it entirely.
  1. RNN has a lot of possible architecture that might work better, it hard to search for the best architecture/hyperparameters setting, the same as it’s hard to search for the best theory-driven model.
* Set a very clear metric to evaluate performance
* NN models are very sensitive to initial condition
  1. pre-train the weights on random decision and then fine-tune on the behavior
* Data Augmentation of human data
  1. pre-train the weights on augmented data of the behavior.
  2. Create series in different lengths from different points of the behavior of the agent.
  3. Thinking of more sophisticated ways to augment the data – with or without task constrains
  4. This is an interesting prospective if it will improve the fit for all the models or only for NN.
* It might be that given the structure of this tasks (binary decision) it might be that the small actions space can't generate a large enough variance to be explained (different form vision task).
* A good direction to explore is the fact that RNN achieve a better fit on the training data than the true theory-driven model, but lower fit on the test data then the true theory-driven model. Why?
* Good rule – invest little on training data (noisier data, partially labeled data) and more on test-data (labeled data)