

Reflection and teamwork (10 points, 1% of the grade)

GitHub: https://github.com/utilityfog/EZ_Optimization/tree/main

This is an **individual** assignment. Please submit one PDF file to Gradescope.

It needs to contain these components:

- ☐ One thing you learned through this project.
I learned that the training regime for a time series RL model itself can be path dependent, influenced by the model's initial policies.
- ☐ One challenge you encountered during this project and how you overcame it. (This exercise will be helpful in your job interview or grad school applications.)
The main challenge I encountered in this project was deliberating to try harder even when model's train and test set performance were both garbage. Most people would give up there, but I defied the definition of insanity and instead trained the whole model again, without changing anything. This is the main decision that allowed me to discover path dependence of my model.
- ☐ List a contribution that each team member made to the project (including you). Did everyone contribute to the project equally?
 - a. Kalkidan : Helped clean the dataset, ran descriptive statistics, and created several graphs used in our presentation. I also drafted part of the final summary and helped explain our findings clearly.
 - b. Nuhamin: Collected the dataset, prepared the initial research question, and organized our workflow.
 - c. Wonjae: Designed the final visualizations and assisted with coding the analysis pipeline:
 - d. Layla: Created the slide deck, wrote the introduction and conclusion, and presented our final results to the class.
- ☐ **[Optional]** Anything else you would like for us to know about the project.
You must use a learning rate of $1e-2$ to ensure that the model converges.
- ☐ **[Extra credit]** Add this project to your CV, resume, LinkedIn page, personal website, or anything similar, and include a screenshot of it in your PDF file.



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Wonjae Oh

CTO @scalator and Student at University of North Carolina at Chapel Hill
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utilityfog/EZ_Optimization

Path Dependent Learning Dynamics of ICM PPO with Epstein Zin Utility in Tensor Series Reinforcement Learning



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