Team Charter

Felipe Buchbinder, Shota Takeshima and Young Kyung Kim (Thomas)

Purpose and Goal:

The purpose of this team is to arrive at the date the Capstone project is due (in 2021) with the following deliverables:

1. A GitHub/GitLab repository with the sctips produced during the course of this project
2. A final presentation to be presented at Duke University with our problem statement, methodological approach and results.

We also strive for a third deliverable we ideally would like to obtain, namely, to have a paper submitted (or ready to be submitted) to a conference on Artificial Intelligence, Reinforcement Learning, Machine Learning or equivalent field.

Time committed

5-10 hours per week

Team culture

We are adults and will deal with each other as being adults.

We believe the most important element for a group's success is that each member feel comfortable to speak the truth without fear of being blamed: to reject work he doesn't feel capable of doing, to notify when he perceives he won't be able to deliver something to which he had committed, and to ask for help when he feels he needs it – and to know his team members will help him, rather than judge him, blame him or reprehend him.

Deliverables

The final deliverables of this project are the ones stated in the section related to purpose and goals, namely,

1. A GitHub/GitLab repository with the sctips produced during the course of this project
2. A final presentation to be presented at Duke University with our problem statement, methodological approach and results.
3. (Ideally) To have a paper submitted (or ready to be submitted) to a conference on Artificial Intelligence, Reinforcement Learning, Machine Learning or equivalent field.

The following are intermediate deliverables we aim to achieve by the end of the current (Fall 2020) semester:

4. An intermediate presentation describing the evolution of our project up to the specified date, namely, whichever features of the deliverable described in item (2) that have already been accomplished, in total or in part

5. To have at least an initial version of the GitHub/GitLab repository described previously in item (1)
6. To have gained a theoretical understanding of Deep Reinforcement Learning, as well as of the CityLearn environment.

Other deliverables may be added to this list, as negotiated with the project client.

Team members and roles

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We do not have any division of roles between ourselves. We see ourselves as tackling this project conjointly. As we have a clearer picture of the requirements of this project, we will naturally assign tasks among ourselves. However, regardless of how we distribute such tasks, we expect each member of the group to follow three roles:

1. To deliver the tasks he has committed to do;
2. To warn his team members in case he becomes aware of any impediment to deliver the task to which he has committed;
3. To help his team members in case any of them asks for help.

Supporting Resources

Wann-Jiun Ma [Focal point from Resource.ai]

Yuqiang Zhan [Project Manager]

MIDS Team, in particular, the team of the Capstone Project