

# Advanced Group Overview

TJ Machine Learning Officers

October 2020

## 1 Overview

This year, we're doing things a bit differently with the advanced group. We hope to have either a lecture or a reading group discussion every week.

Our first few lectures will be with Dr. Dasgupta, who has created a three part lecture series on Multi-agent Systems and Game Theory, Deep Reinforcement Learning, Intelligent AI-based Game Playing with Reinforcement Learning.

Following this series of lectures, we will have a round-robin lecture/discussion group. Every week, we will either have a lecture on an advanced ML topic or a discussion about an ML paper or an ML-related article (where members are expected to read the paper/article prior to the meeting).

If you plan to run for an officer position at the end of the year, we expect you to present at least one advanced lecture and lead at least one discussion. You may co-lead a lecture or discussion with one another club member. This can be at any time of the year. We will release sign-ups for both these items in the next several weeks. We will provide at least one example advanced lecture and one example discussion before opening up opportunities for club members to present.

We hope that you enjoy this year's Advanced Group. If you have any suggestions to improve the structure we are adopting, please let us know by reaching out to one of us on Messenger or at our email ([tjmachinelearning@gmail.com](mailto:tjmachinelearning@gmail.com)).