

CPSC 330 Lecture 12: Ensembles

Announcements

- Midterm 1
 - How was it?
- HW4 grading is almost done. The grades will be released later this week.
- HW5 is an open-ended project-type homework. Please ensure to start early.

iClicker Exercise 12.0

iClicker cloud join link: <https://join.iclicker.com/VYFJ>

Which of the following scenarios has worked effectively for you in the past?

- a. Working independently on a project/assignment.
- b. Working with like-minded people.
- c. Teaming up with a diverse group offering varied perspectives and skills.

Ensembles

- Key idea: Combine multiple trees to build stronger models.
- These kinds of models are extremely popular in industry and machine learning competitions.
- We are going to cover how to use a few popular tree-based models:
 - Random forests
 - Gradient boosted trees (very high level)
- We will also talk about two common ways to combine different models:
 - Averaging
 - Stacking

Ensembles class demo