

Pre-class Learning Activities for Session 8

- Complete the following learning activities (listed below) before class.
- References are optional and not meant to be read from first page to last. Refer if necessary.
- You may be asked to volunteer/present your work for class participation points.
- If you presented your work in class, remember to email your work to instructor after class.
- You may be asked to provide comments/add-ons to work presented by students.

Learning Activities:

1. In NTULearn Main Site, watch Lecture Videos S8.1, S8.2 & S8.3.
2. Run RScripts RF Heart1.R and flatprice-RF.R one line at a time and view the output.
3. Do Random Forest Exercise 1.PDF

Concept References [provided in content folder]:

- Breiman (1996a) Bagging Predictors. Machine Learning, 24, 123-140.
- Breiman (2001) Random Forests. Machine Learning, 45, 5–32.

R References:

- Gareth James et. al. (2017) An Introduction to Statistical Learning, Section 8.2.1 & 8.2.2.
<https://www.statlearning.com/>
- <https://www.r-bloggers.com/2018/01/how-to-implement-random-forests-in-r/>

Python References:

- <https://stackabuse.com/random-forest-algorithm-with-python-and-scikit-learn/>