

Pre-class assignment #27

PHY-905-002
Computational Astrophysics and Astrostatistics
Fall 2018

This assignment is due the evening of Monday December 3, 2018. Turn in all materials via GitHub.

Reading:

1. Chapter 9 (Clustering, classification and data mining) of [Modern Statistical Methods for Astronomy](#) by Feigelson and Babu

Your assignment:

1. Work through the tasks in the included Jupyter notebook, and answer the questions in the notebook.
2. In the file `ANSWERS.md`, write down any questions that you have about the material you read or the work you did in the Jupyter notebook, any points that are not clear, or anything you'd like to know more about. Aim for at least 3 questions/unclear points/etc.

Handing it in: Include your modified notebook and your answers to the questions (in the file `ANSWERS.md`) in your assignment.

Some potentially useful Python packages: This will probably be helpful for you in the future!

1. [AstroML: Machine Learning and Data Mining for Astronomy](#) (website).
2. [AstroML examples](#).
3. [scikit-learn: machine learning in Python](#).