

MPAGS Astrophysical Techniques Assignment

5. Data Mining

Please email your assignment to Kendall (kendall.ackley@warwick.ac.uk). Answers can be documents, code, or hand-written notes or scans.

There is no formal mark associated with the assignment, as the aim is that you engage with the topic – it will just be noted if you make an attempt.

EITHER

Perform an example exercise from the notebook accompanying the course:

- Navigate to https://github.com/kendallackley/MPAGS_Data_Mining and click the “launch binder” or “Open in Colab” badge to run the notebook on a remote server.
 - Alternatively, you may clone and install the repo locally if you wish, although this requires you install the correct packages (listed in requirements.txt)
- Choose **one** of the example exercises (there are 4 in total, two in cross-matching and two in machine learning) and complete them however you wish.
 - They can be completed inside the notebook, or, alternatively, the CSV files inside data/ at the main repo can be used to download the source data for easy loading into a program of choice.

OR

The data mining assignment can be open ended if you wish:

- You may use the example exercises in the notebook for inspiration to perform your own investigation.
- You can design and perform a data mining task of similar complexity/length using tools of your own choice.
 - This could be related to your PhD project, for example.