

HUDK 4050: CORE METHODS IN EDM



<https://stackoverflow.com/help/how-to-ask>

Research

- Search for your answer

Research

- Search again for your answer

Research

- Search again for your answer just to make sure

Clarity

- Ask question clearly
- Ask only one one question at a time
- Make sure the title ***says what it is on the tin***
 - “R confusion” **(Bad)**
 - “What is the difference between a factor variable and a numeric variable in R?” **(Better)**
- Make sure spelling and grammar are correct (ask someone if you are unsure)
- Identify code with by using `` and >
- Don't use tabs! (SO doesn't interpret them)

Format

- Title
- Question body: expand on title
 - How did the problem arise, brief background
- Code
- Reiterate question
- Thank you

Reproducible Example

<https://stackoverflow.com/help/mcve>

- **Minimal:** Use as little code/explanation as possible
 - Don't post your whole assignment!
 - Recreate the problem with a smaller toy data set (you may solve the problem by doing this)

Reproducible Example

<https://stackoverflow.com/help/mcve>

- **Complete:** Include all aspects of problem
 - Where did the data come from?
 - A single problem
 - What is the overall goal and the specific goal of the code
 - If you have a lot of code you need to isolate the line with the issue
 - It was working and then stopped

Reproducible Example

<https://stackoverflow.com/help/mcve>

- **Verifiable:** Can the problem be reproduced
 - Toy data
 - Code
 - Any other relevant information: system, R version

Asking Good Questions

- Life skill not just for SO
- Many people don't have it
- It takes practice
- Is worth spending time to think about it

Adaptive Systems



Adaptive

- Originally = assistive
- ~1990s = sequential estimate of aptitude (IRT)
- ~2012 = a system that adapts the educational environment according to students' learning needs
- Distinct from Intelligent Tutors in terms of methods employed

Adaptive Systems

The Netflix logo, consisting of the word "NETFLIX" in a bold, red, sans-serif font, is centered on a light gray rectangular background.The Amazon.com logo, featuring the text "amazon.com" in a black, sans-serif font with a registered trademark symbol, and a curved orange arrow underneath the word "amazon". It is centered on a white rectangular background.The Pandora logo, with the word "PANDORA" in a white, sans-serif font, is centered on a dark blue background with a bokeh effect of light blue and white circles.The last.fm logo, with the text "last.fm" in a red, lowercase, sans-serif font, is centered on a white background.The Hulu logo, with the word "hulu" in a green, lowercase, sans-serif font, is centered on a dark gray rectangular background.The LinkedIn logo, with the word "Linked" in a black, sans-serif font and "in" in white inside a blue square, followed by a registered trademark symbol, is centered on a white background.

Adaptive Engines



Recommender Systems

Collaborative filter: build a model from a user's past behavior + similar decisions made by other users



Content filter: utilize a series of discrete characteristics of an item in order to recommend additional items with similar properties

