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Next courses (dive deeper): Machine Learning (422) Databases (424)

Other relevant courses:
- Computational Methods (460, for optimization)
- Bioinformatics (423, application of things we saw in class)
- HCI (434, communication and interaction)

There is a Data Science specialization that includes these and other courses:
http://undergrad.cs.umd.edu/degree­requirements­cs­major

Start thinking of research opportunities

If you plan on going to grad school, it makes a big difference in applications
If you don’t plan on going to grad school, it gives you experience thinking about data-centric problems and applications

For data science, in general, it is important to show qualification academically, and productively.
Have a portfolio! Github can be very useful.

Outside UMD

Get busy!

Kaggle competitions:
https://www.kaggle.com/
Get involved in open source projects. If there was something you wished existed while doing class work, build it!
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Learn new things

Python has a lot of useful stuff for data science
http://www.amazon.com/Python­Data­Analysis­Wrangling­IPython/dp/1449319793
Tutorials on Kaggle are pretty good, their new kernels area is fun to look at:
https://www.kaggle.com/kernels
Hector’s Data Science corner:
http://www.hcbravo.org/IntroDataSci/datasci_corner/
Many resources available online

Stay informed

Lots of interesting articles and posts, from many different perspectives:
https://www.oreilly.com/topics/data
There’s even podcasts!:
- Data Skeptic
- Data Stories
- Talking Machines
- Not so standard deviations
- More

Remember, Data Science affords opportunities beyond the mathematical and the technical.
These are skills that can make significant impact outside the technical realm: journalism, health, civics, etc.
E.g.,
https://medium.com/@dpatil
Think about what motivates you first, and then figure out how to dive in.

Wrapup: What Next?

Héctor Corrada Bravo

University of Maryland, College Park, USA
CMSC320: 2019-05-14
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