Statistical
Learning Group
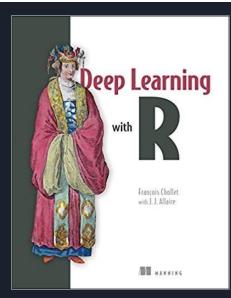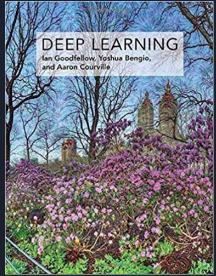
Why are we here?

Logistics

Deep Learning With R by Chollet and Allaire

Deep Learning by Goodfellow, Bengio, Courville

Meetings roughly every other Thursday 12pm-1

*Optional

We have PDFs of the books as well as a few physical copies

Meeting Structure

Chapter Review / Presentation (Lightning talk)	~ 5 Minutes
Discussion Questions	~ 25 Minutes
Kaggle	Presentation	News Article/ Paper	~ 30 Minutes

kaggle™

Jan 9th	Introduction, Intro to R/GitHub
Jan 16th	Chapters 1 & 2
Jan 30th	Chapter 3 & Applied Project
Feb 13th	Chapter 4 & Readings from other texts
Feb 27th	Chapter 5
Mar 19th	Computer Vision Project
Apr 2nd	Chapter 6
Apr 16th	Natural Language Processing Project

Expectations

- Come having read relevant chapters
- Participate in the discussion
  - Bring any questions you have!
- Sign up for a lightning talk
- Attend a majority of the meetings (6/8)

Github!

Link to the SLG Deep Learning GitHub Repository: https://github.com/AlvinSheng/SLG-Deep-Learning

For next week

Read chapters 1 and 2 (these will mostly be introduction)

Discussion questions are in Ch1and2Questions.md in the Ch1and2 folder on GitHub. (link)

If you have worked on any machine learning projects you can also talk about them and present them if you want.

Git, GitHub, & R

Goal: Use git/github to

- backup files
- deal w/version control
- collaborate

"FINAL".doc

Git - Version control software

- Create file repositories
- Update them using git commands
- Collaborate

github - host online repositories and uses git

- Basic accounts free (https://github.com/)
- NCSU has its own github (https://github.ncsu.edu/)

Working Solo with git/github

- Use R projects
- Have local version of repo
- When you want to work:
  - Pull most recent files (git pull)
  - Do work…
  - Commit changes locally (git commit --m "Message")
  - Push changes to remote directory (git push)

Working Together with git/github

Basics

- Fork a repository
- Clone it to your computer
- Do work and update your repo as before
- Request pull from original repo

Also, branches…