INTRO TO DATA SCIENCE SESSION 20: WHERE TO GO NEXT?

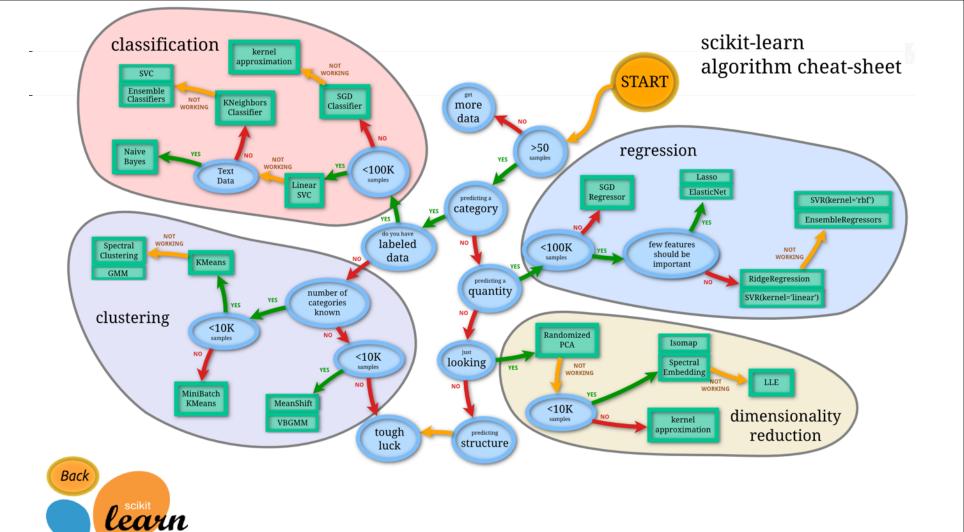
I. WHERE HAVE WE BEEN?

supervisedregressionclassificationunsuperviseddimension reductionclustering

- Data acquisition and preparation
- Exploratory data analysis
- Supervised learning:
 - kNN
 - Linear and multiple regression
 - Decision trees & random forests
 - logistic regression
 - Naïve Bayes

WE COVERED

- Unsupervised learning:
 - K-means clustering
 - PCA/SVD for dimensionality reduction
- Text mining and natural language processing
- Support Vector Machines (SVM)
- Recommender systems
- Overview of time series

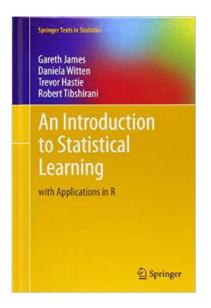


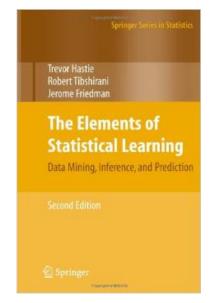
WHAT'S DONE

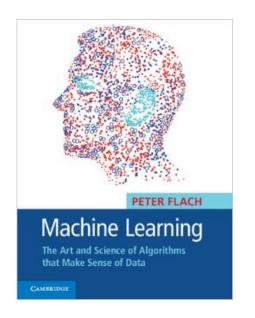
- Python and iPython Notebook
- Scikit-learn and Pandas
- matplotlib and Seaborn
- Nltk and NetworkX
- SQL and SQLite
- Python recsys

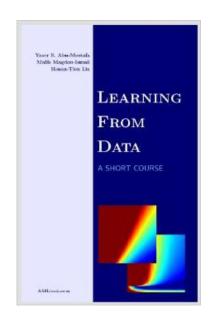
II. WHERE TO GO NEXT?

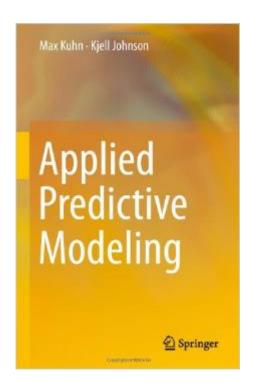
WHAT TO DO NEXT: READING

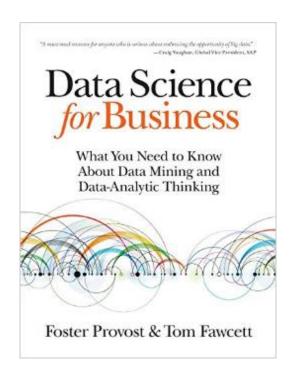


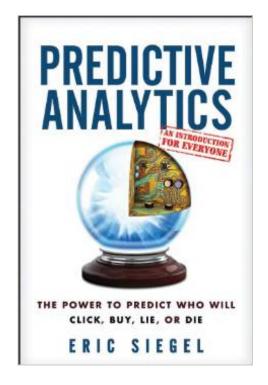




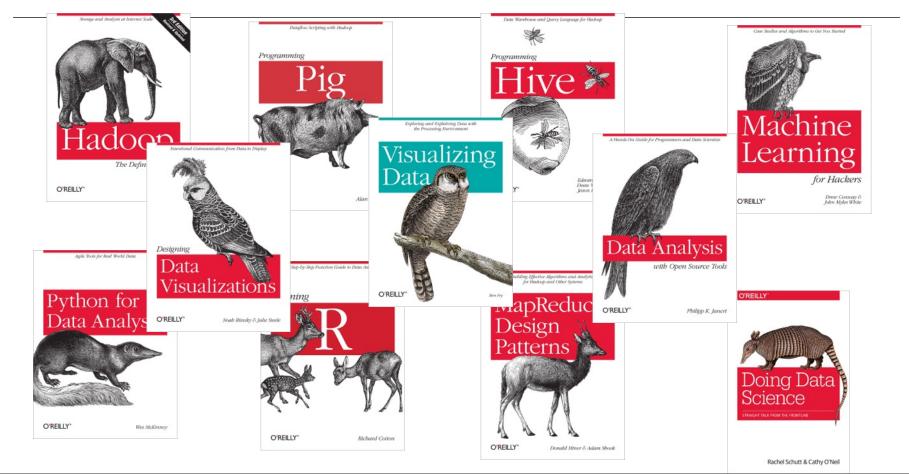








WHAT TO DO NEXT: READING



WHAT TO DO NEXT: ONLINE COURSES





Stanford University

Machine Learning

Ended 3 years ago

Course Record



Stanford University
Mining Massive Datasets

Ended 2 months ago

Course Record

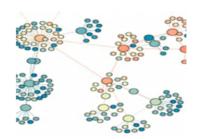
WHAT TO DO NEXT: ONLINE COURSES



Stanford University Natural Language Processing

Ended 3 years ago

Course Record

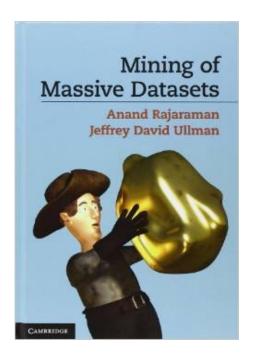


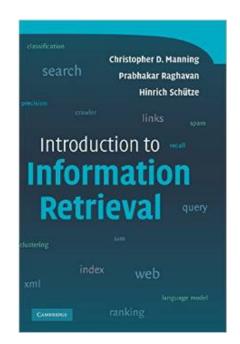
University of Michigan Social Network Analysis

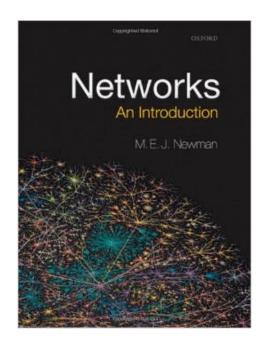
Ended a year ago

Course Record

WHAT TO DO NEXT: READING







- Python: use it every day / week!
- Scala (if you get bored with Python; Spark has PySpark)
- Visualization (D3 and js)
- Algorithms: Artificial Neural Networks / Deep Learning
- "Big Data:"
 - MapReduce / Hadoop (?)
 - Spark
 - Elasticsearch

kaggle



DataKind

SF Machine Learning

http://www.meetup.com/sfmachinelearning/



http://www.meetup.com/Data-Mining



Data Visualization Group in the Bay Area

http://www.meetup.com/visualizemydata

- Online :
 - <u>http://www.reddit.com/r/machinelearning</u>
 - <u>http://www.r-bloggers.com</u>
 - <u>http://dataelixir.com</u>
 - <u>http://www.datatau.com</u>
 - <u>http://pydata.org</u>
 - http://www.technologyreview.com

LinkedIn groups on ML and DS

Each Other!!!

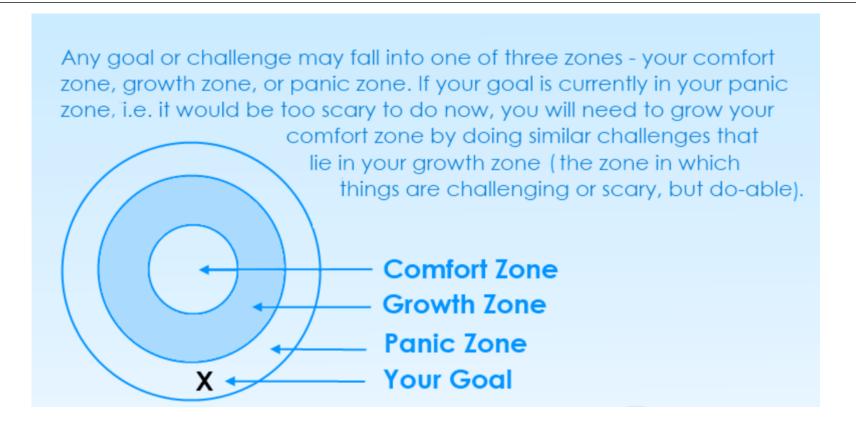
- Class Google group / mailing list
- LinkedIn
- Study groups (DAT3 still does dinner and shares job opportunities)

CONGRATULATIONS...

...for getting out of your comfort zone!



How to Grow Your Comfort Zone



How to Grow Your Comfort Zone

As you pursue challenges in your growth zone, those challenges become easier and your comfort zone expands.

Eventually, challenges that were previously in your panic zone begin to fall into your growth zone, and ultimately within your comfort zone.

