





# Professional Development

- CMU
  - Computer Systems
  - Parallel Computer Architecture and Programming
  - Database Systems - In Memory
  - Machine Learning
- Coursera
  - Learning how to learn
  - Neural Networks and Deep Learning
  - Improving Deep Neural Networks: Hyperparameter tuning, Regularization and Optimization
  - Structuring Machine Learning Projects
  - Convolutional Neural Networks
  - Sequence Models
  - Big Data Analysis with Scala and Spark
  - Statistical Inference
  - Mindshift
  - Machine Learning
  - How to Win a Data Science Competition: Learn from Top Kagglers
  - Bayesian Methods for Machine Learning
- Udacity
  - Scalable microservices with Kubernetes
  - Intro to Machine Learning
  - Deep Learning
  - Intro to Hadoop and MapReduce
  - Front End Frameworks
  - Applied Cryptography
  - Networking for Web Developers
  - Configuring Linux Web Servers
- Stanford
  - Compilers
- Practical Deep Learning For Coders
- Deep Natural Language Processing
- DataCamp
  - Introduction to R
  - Data Analysis and Statistical Inference (R based)
  - Basic Statistics (R based)
  - Intro to Python for Data Science
  - Inferential Statistics (R based)
  - Intro to SQL for Data Science

**generalizing specialist (n): a jack-of-all-trades and master of a few**

## • CMU

- **Computer Systems** 
  - <http://www.cs.cmu.edu/~213/schedule.html>
- **Parallel Computer Architecture and Programming** 
  - <https://scs.hosted.panopto.com/Panopto/Pages/Sessions/List.aspx#folderQuery=%22parallel%22&folderID=%22a5862643-2416-49ef-b46b-13465d1b6df0%22>
- **Database Systems - In Memory** 
  - <https://scs.hosted.panopto.com/Panopto/Pages/Sessions/List.aspx#folderQuery=%22database%22&folderID=%22ed2ee867-9610-4bad-94af-5d12c2ea47cd%22>
- **Machine Learning** 
  - <https://scs.hosted.panopto.com/Panopto/Pages/Sessions/List.aspx#folderQuery=%22machine%20learning%22&folderID=%2285e1b6bf-6ac9-4a92-a0de-aaf8c2dd2418%22>

## • Coursera

- **Learning how to learn**  

- <https://www.coursera.org/learn/learning-how-to-learn/home>
- **Neural Networks and Deep Learning** ✓
  - <https://www.coursera.org/learn/neural-networks-deep-learning>
- **Improving Deep Neural Networks: Hyperparameter tuning, Regularization and Optimization** ✓
  - <https://www.coursera.org/learn/deep-neural-network>
- **Structuring Machine Learning Projects** ✓
  - <https://www.coursera.org/learn/machine-learning-projects>
- **Convolutional Neural Networks** ✓★
  - <https://www.coursera.org/learn/convolutional-neural-networks>
- **Sequence Models** ✓★
  - <https://www.coursera.org/learn/nlp-sequence-models>
- **Big Data Analysis with Scala and Spark** ✓
  - <https://www.coursera.org/learn/scala-spark-big-data>
- **Statistical Inference** ✓
  - <https://www.coursera.org/learn/statistical-inference>
- **Mindshift** ✓★
  - <https://www.coursera.org/learn/mindshift>
- **Machine Learning** ✓★👍
  - <https://www.coursera.org/learn/machine-learning>
- **How to Win a Data Science Competition: Learn from Top Kagglers** ✓
  - <https://www.coursera.org/learn/competitive-data-science>
- **Bayesian Methods for Machine Learning** ✓
  - <https://www.coursera.org/learn/bayesian-methods-in-machine-learning>
- **Udacity**
  - **Scalable microservices with Kubernetes** ✓
    - <https://www.udacity.com/course/scalable-microservices-with-kubernetes--ud615>
  - **Intro to Machine Learning** ✓★
    - <https://www.udacity.com/course/intro-to-machine-learning--ud120>
  - **Deep Learning** ✓★
    - <https://www.udacity.com/course/deep-learning-ud730>
  - **Intro to Hadoop and MapReduce** ✓
    - <https://www.udacity.com/course/intro-to-hadoop-and-mapreduce-ud617>
  - **Front End Frameworks** ✓
    - <https://www.udacity.com/course/front-end-frameworks-ud894>
  - **Applied Cryptography** 🗨️
    - <https://www.udacity.com/course/applied-cryptography-cs387>
  - **Networking for Web Developers** ✓
    - <https://www.udacity.com/course/networking-for-web-developers-ud256>
  - **Configuring Linux Web Servers** ✓
    - <https://www.udacity.com/course/configuring-linux-web-servers--ud299>
- **Stanford**
  - **Compilers** ✓★
    - <https://lagunita.stanford.edu/courses/Engineering/Compilers/Fall2014/about>
- **Practical Deep Learning For Coders**
  - <http://course.fast.ai/index.html>
- **Deep Natural Language Processing**
  - <https://github.com/oxford-cs-deepnlp-2017/lectures/blob/master/README.md> ✓★

- **DataCamp**

- **Introduction to R** 🟢★
  - <https://www.datacamp.com/courses/free-introduction-to-r>
- **Data Analysis and Statistical Inference (R based)** 🟢★
  - <https://www.datacamp.com/community/open-courses/statistical-inference-and-data-analysis>
- **Basic Statistics (R based)** 🟢★
  - <http://www.datacamp.com/community/open-courses/basic-statistics>
- **Intro to Python for Data Science** 🟢★
  - <https://www.datacamp.com/courses/intro-to-python-for-data-science>
- **Inferential Statistics (R based)** 🟢★
  - <https://www.datacamp.com/community/open-courses/inferential-statistics>
- **Intro to SQL for Data Science** 🟢★
  - <https://www.datacamp.com/courses/intro-to-sql-for-data-science>