

GURUKUL



Grow with Gurukul

Top Courses in machine learning, Deep Learning and Data Science for free.

If you are curious enough to learn by your own.

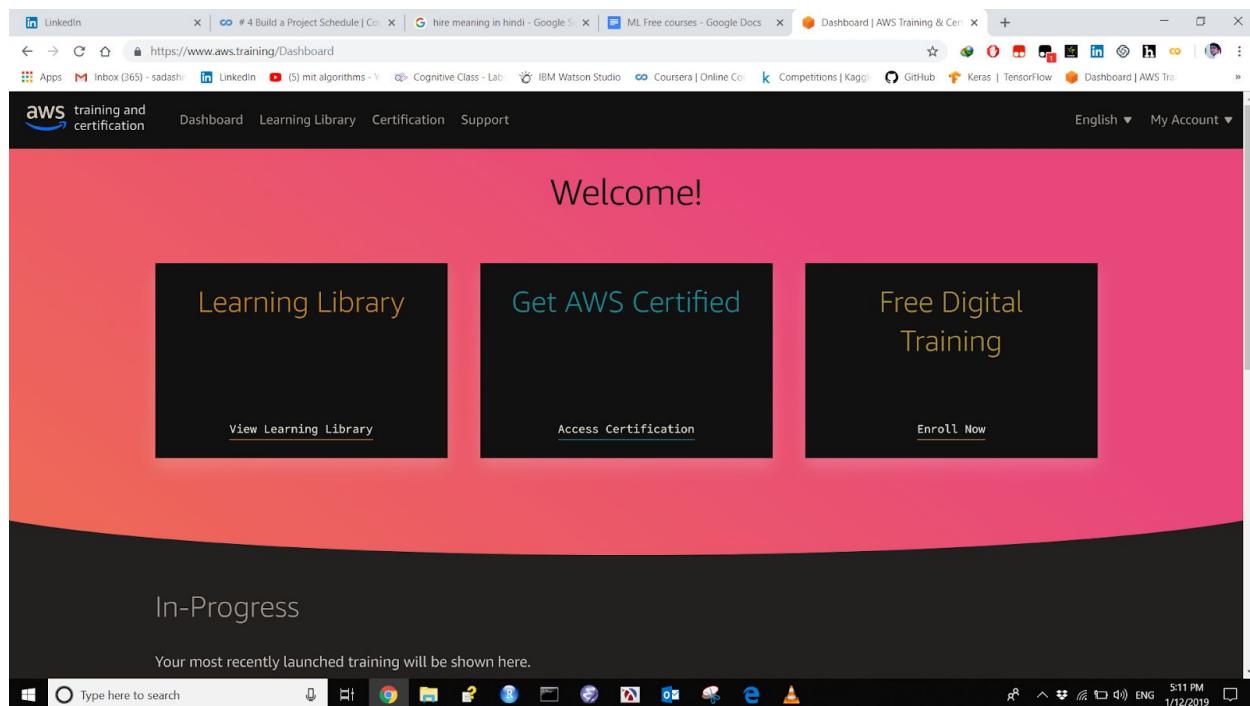
Here is something for you to learn and deploy your skills.

Sadashiv

Courses with certificates

Amazon AWS

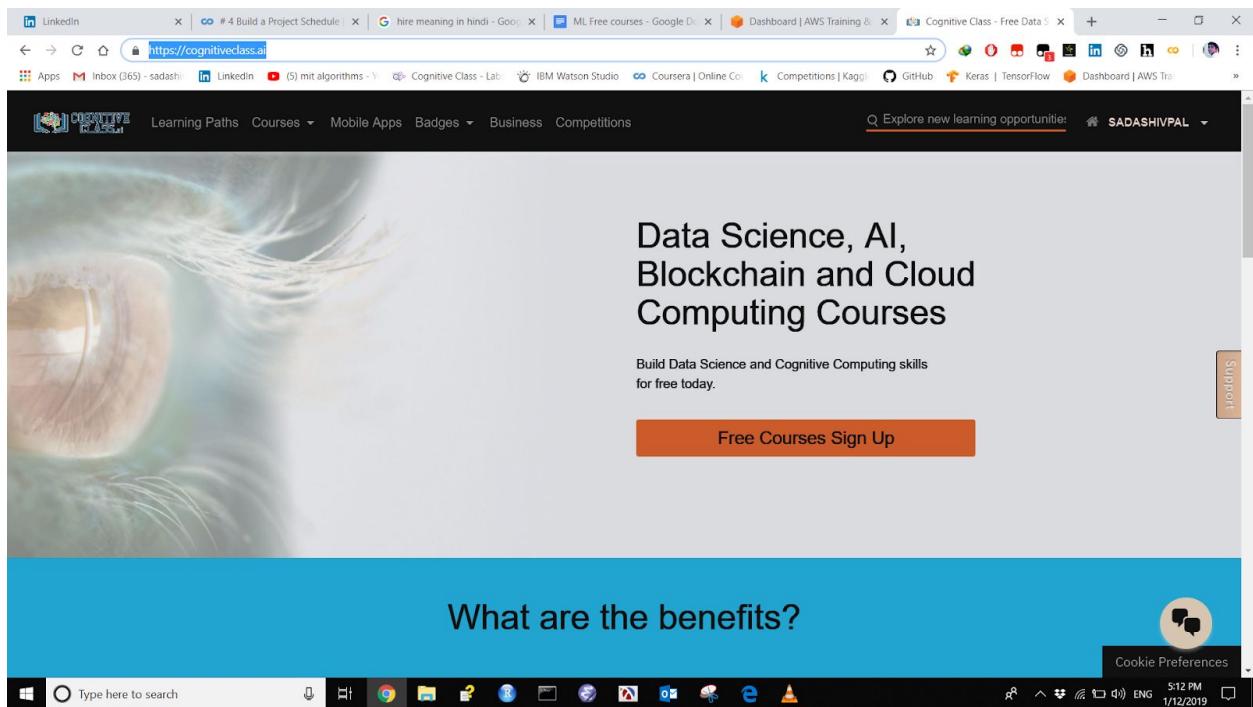
<https://www.aws.training/Dashboard>



IBM Watson studio

Cognitive class

<https://cognitiveclass.ai/>



Courses without certificates

1 Machine Learning

University of Washington

This course is designed to provide a thorough grounding in the fundamental methodologies and algorithms of machine learning. The topics of the course draw from classical statistics, from machine learning, from data mining, from Bayesian statistics, and from optimization.

Prerequisites: Students entering the class should be comfortable with programming and should have a pre-existing working knowledge of linear algebra, probability, statistics and algorithms.

<https://courses.cs.washington.edu/courses/cse546/17au/>

The screenshot shows a Microsoft Edge browser window with the URL <https://courses.cs.washington.edu/courses/cse546/17au/>. The page title is "CSE 546: Machine Learning". The main content is a "Schedule" section containing a bulleted list of lectures:

- Lecture 1: Introduction and MLE
 - Topics: Welcome/overview, MLE for Bernoulli and Gaussians
 - Required reading: Murphy 1, 2.1-2.6
 - Slides: [lecture slides](#), [annotated lecture slides](#)
- Lecture 2: Bayesian Inference, MAP, Regression
 - Topics: MLE, MAP, Linear Least squares
 - Required reading: Murphy 3.1-3.3, 4.6, 5.1-5.2, 7.1-7.3
 - Slides: [lecture slides](#), [annotated lecture slides](#)
- Lecture 3: Regression, Overfitting
 - Topics: Linear Least squares, Overfitting
 - Required reading: Murphy 7.1-7.3, 6.1-6.5, 7.5.1, 7.6
 - Slides: [lecture slides](#), [annotated lecture slides](#)
- Lecture 4: Ridge Regression, Model Selection and Assessment
 - Topics: Ridge regression, k-fold cross validation, Bootstrap
 - Required reading: Murphy 7.5-7.6, 6.2
 - Optional, further reading on Bootstrap: Efron and Hastie 10-11
 - Slides: [lecture slides](#), [annotated lecture slides](#)
- Lecture 5: Lasso Regression, Convexity, Logistic
 - Topics: Lasso regression, Convexity, Logistic regression
 - Required reading: Murphy 13.1-13.4, 8.1-8.3
 - Slides: [lecture slides](#), [annotated lecture slides](#)
- Lecture 6: Logistic Regression, Optimization
 - Topics: Logistic regression, Convexity, Optimization
 - Required reading: Murphy 8.1-8.3
 - Optional, further reading on optimization: Nocedal and Wright 2.3
 - Slides: [lecture slides](#), [annotated lecture slides](#)

200 Best Resources

We are working on Drive please cooperate with us!!!

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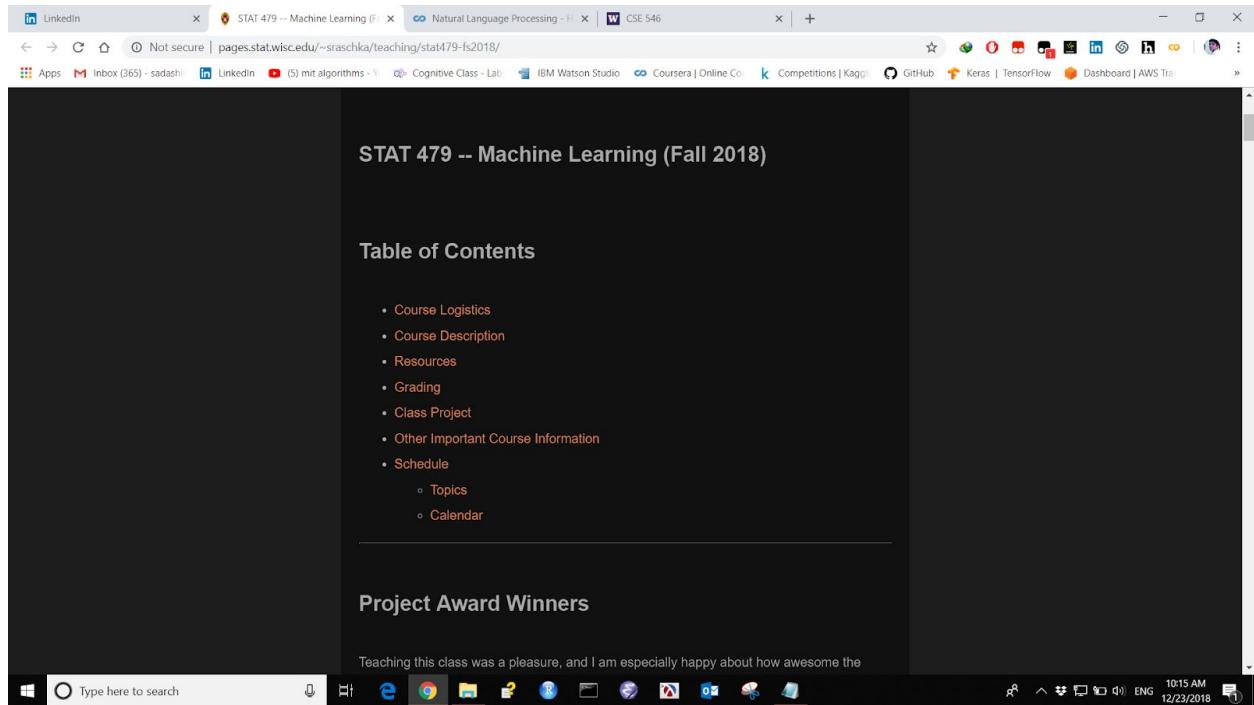
<https://medium.com/machine-learning-in-practice/over-200-of-the-best-machine-learning-nlp-and-python-tutorials-2018-edition-dd8cf53cb>

2. Machine Learning

University of Wisconsin–Madison

This course will cover the key concepts of machine learning, including classification, regression analysis, clustering, and dimensionality reduction. Students will learn about the fundamental mathematical concepts underlying machine learning algorithms, but this course will equally focus on the practical use of machine learning algorithms using open source libraries from the Python programming ecosystem.

<http://pages.stat.wisc.edu/~sraschka/teaching/stat479-fs2018/>



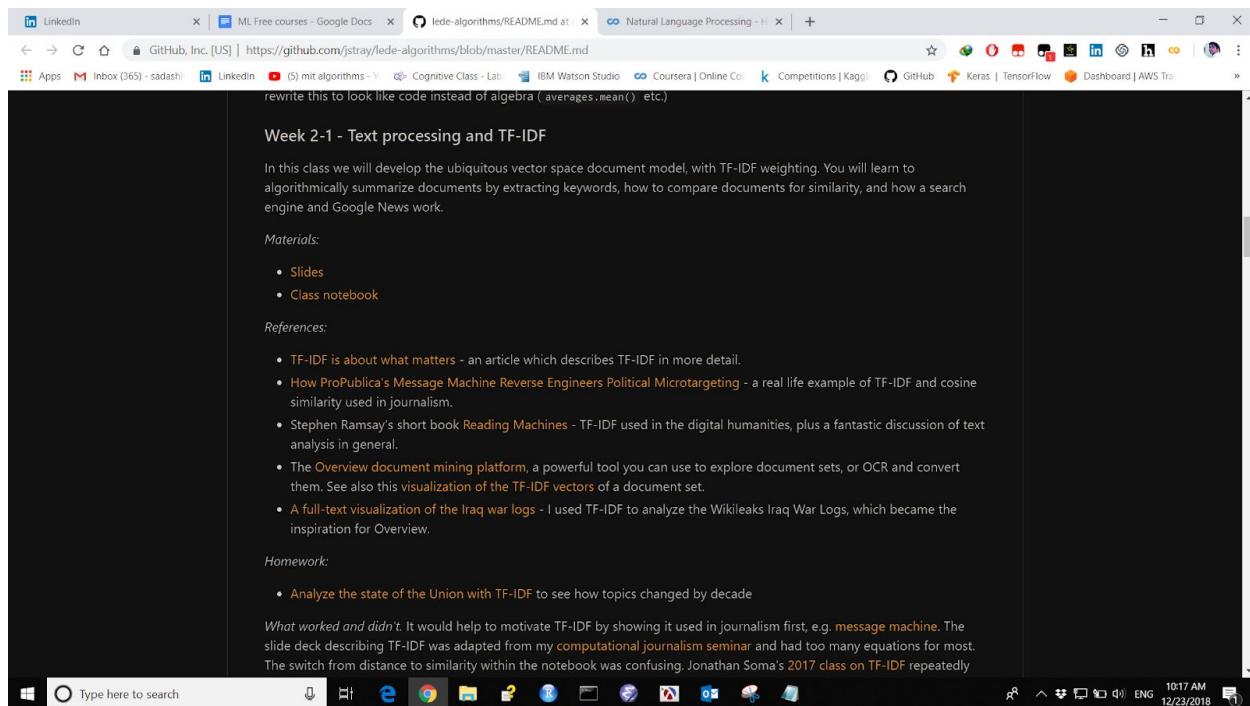
3. Algorithms (in Journalism)

Columbia University

This is a course on algorithmic data analysis in journalism, and also the journalistic analysis of algorithms used in society. The major topics are text processing, visualization of high dimensional data, regression, machine learning, algorithmic bias and accountability, monte carlo simulation, and election prediction.

All coding is done in Python, using Pandas, matplotlib, scikit learn.

<https://github.com/jstray/lede-algorithms/blob/master/README.md>



LinkedIn | ML Free courses - Google Docs | lede-algorithms/README.md at | Natural Language Processing - i | +

← → C ⌂ GitHub, Inc. [US] | https://github.com/jstray/lede-algorithms/blob/master/README.md

Apps | Inbox (365) - dasdash | LinkedIn | (S) mit algorithms - v | Cognitive Class - Lab | IBM Watson Studio | Coursera | Online Competitions | Kaggle | GitHub | Keras | TensorFlow | Dashboard | AWS Trial

rewrite this to look like code instead of algebra (averages.mean() etc.)

Week 2-1 - Text processing and TF-IDF

In this class we will develop the ubiquitous vector space document model, with TF-IDF weighting. You will learn to algorithmically summarize documents by extracting keywords, how to compare documents for similarity, and how a search engine and Google News work.

Materials:

- Slides
- Class notebook

References:

- TF-IDF is about what matters - an article which describes TF-IDF in more detail.
- How ProPublica's Message Machine Reverse Engineers Political Microtargeting - a real life example of TF-IDF and cosine similarity used in journalism.
- Stephen Ramsay's short book *Reading Machines* - TF-IDF used in the digital humanities, plus a fantastic discussion of text analysis in general.
- The *Overview* document mining platform, a powerful tool you can use to explore document sets, or OCR and convert them. See also this *visualization* of the TF-IDF vectors of a document set.
- A *full-text visualization* of the *Iraq war logs* - I used TF-IDF to analyze the WikiLeaks Iraq War Logs, which became the inspiration for *Overview*.

Homework:

- Analyze the state of the Union with TF-IDF to see how topics changed by decade

What worked and didn't. It would help to motivate TF-IDF by showing it used in journalism first, e.g. *message machine*. The slide deck describing TF-IDF was adapted from my *computational journalism seminar* and had too many equations for most. The switch from distance to similarity within the notebook was confusing. Jonathan Soma's 2017 class on TF-IDF repeatedly

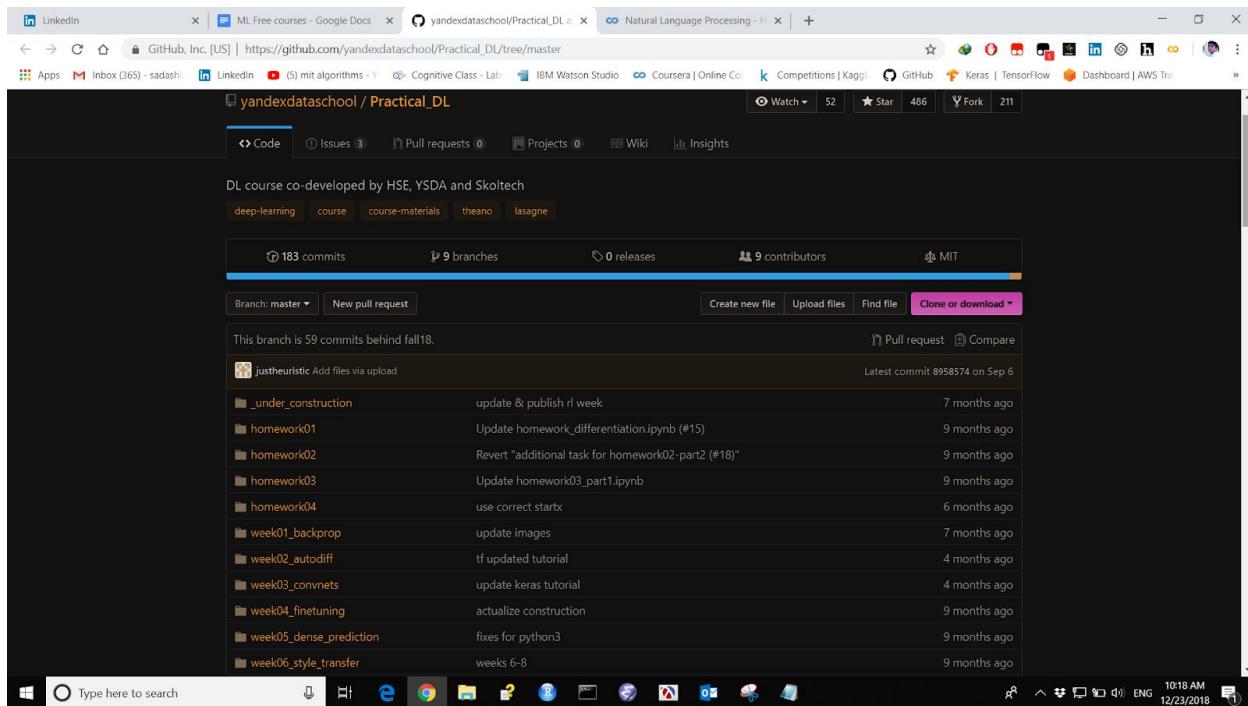
Type here to search

10:17 AM 12/23/2018 ENG

4. Practical Deep Learning

Yandex Data School

https://github.com/yandexdataschool/Practical_DL/tree/master



5. Big Data in 30 Hours

Krakow Technical University

The goal of this technical, hands-on class is to introduce practical Data Engineering and Data Science to technical personnel (corporate, academic or students), during 15 lectures (2 hours each). All subjects are introduced by examples that students are expected to immediately play with using either command-line or GUI tools.

Prerequisites: the participants need to be technical, reasonably fluent in general programming and operating systems, with basic exposure to Linux shell, databases, and SQL. Working knowledge of Python will be needed for the lectures 9-15.

Note that this course is underdevelopment, and not all lessons have been completed.

<http://ondata.blog/big-data-in-30-hours/>

The goal of this technical, hands-on class is to introduce practical Data Engineering and Data Science to technical personnel (corporate, academic or students), during 15 lectures (2 hours each). All subjects are introduced by examples that students are expected to immediately play with using either command-line or GUI tools.

Prerequisites: the participants need to be technical, reasonably fluent in general programming and operating systems, with basic exposure to Linux shell, databases, and SQL. Working knowledge of Python will be needed for the lectures 9-15.

At the moment (2018), I am teaching the class at Cracow Technical University (Politechnika Krakowska), Faculty of Physics, Mathematics and Computer Science. The audience are the final year students of the graduate Master's degree Informatics studies, Data Analytics specialty. Courtesy of the Faculty, the lectures are open to all. If you live in Krakow, Poland, please come: every Wednesday 9:00 am, Room F020, ul. Podchorążych 1, Kraków (Politechnika Krakowska Wydz. Fiz Mat i Inf), until 23rd January 2019. Some resources:

The student resources page with [materials, links and collateral](#).

The linkedin discussion group (open to all): [Big Data in 30 hours](#)

To learn more, [contact me](#). The syllabus follows.

Recent Posts

- Should justice use AI?
- Lecture notes: an intro to Apache Spark programming
- Top 10 Data Infrastructure technologies for a Data Scientist
- Graph Databases: Cosmos DB
- Graph API – Key Concepts and Best Practices
- Lecture Notes: Hadoop HDFS orientation

Recent Comments

Archives

6. Deep Reinforcement Learning Bootcamp

UC Berkeley (& others)

Reinforcement learning considers the problem of learning to act and is poised to power next generation AI systems, which will need to go beyond input-output pattern recognition (as has sufficed for speech, vision, machine translation) but will have to generate intelligent behavior. Example application domains include robotics, marketing, dialogue, HVAC, optimizing healthcare and supply chains.

This two-day long bootcamp will teach you the foundations of Deep RL through a mixture of lectures and hands-on lab sessions, so you can go on and build new fascinating applications using these techniques and maybe even push the algorithmic frontier.

<https://sites.google.com/view/deep-rl-bootcamp/lectures>

The screenshot shows a Microsoft Edge browser window with the URL <https://sites.google.com/view/deep-rl-bootcamp/lectures>. The page title is "Lectures". The content lists 18 items under the heading "Core Lecture 1 Intro to MDPs and Exact Solution Methods (Pieter Abbeel)". Each item includes a video link and a slides link. The browser's address bar shows "Waiting for cache...". The taskbar at the bottom includes icons for File, Home, Back, Forward, Stop, Refresh, and Search, along with the Windows Start button and system status indicators.

- Core Lecture 1 Intro to MDPs and Exact Solution Methods -- Pieter Abbeel ([video](#) | [slides](#))
- Core Lecture 2 Sample-based Approximations and Fitted Learning -- Rocky Duan ([video](#) | [slides](#))
- Core Lecture 3 DQN + Variants -- Vlad Mnih ([video](#) | [slides](#))
- Core Lecture 4a Policy Gradients and Actor Critic -- Pieter Abbeel ([video](#) | [slides](#))
- Core Lecture 4b Pong from Pixels -- Andrej Karpathy ([video](#) | [slides](#))
- Core Lecture 5 Natural Policy Gradients, TRPO, and PPO -- John Schulman ([video](#) | [slides](#))
- Core Lecture 6 Nuts and Bolts of Deep RL Experimentation -- John Schulman ([video](#) | [slides](#))
- Core Lecture 7 SVG, DDPG, and Stochastic Computation Graphs -- John Schulman ([video](#) | [slides](#))
- Core Lecture 8 Derivative-free Methods -- Peter Chen ([video](#) | [slides](#))
- Core Lecture 9 Model-based RL -- Chelsea Finn ([video](#) | [slides](#))
- Core Lecture 10a Utilities -- Pieter Abbeel ([video](#) | [slides](#))
- Core Lecture 10b Inverse RL -- Chelsea Finn ([video](#) | [slides](#))
- Frontiers Lecture I: Recent Advances, Frontiers and Future of Deep RL -- Vlad Mnih ([video](#) | [slides](#))
- Frontiers Lecture II: Recent Advances, Frontiers and Future of Deep RL -- Sergey Levine ([video](#) | [slides](#))
- TAs Research Overviews ([video](#) | [slides](#))

7. Introduction to Artificial Intelligence

University of Washington

Course contain Lectures, Slides.

<https://courses.cs.washington.edu/courses/cse573/17wi/>

The screenshot shows a Microsoft Edge browser window with the following details:

- Address Bar:** https://courses.cs.washington.edu/courses/cse573/17wi/
- Page Title:** CSE 573 - Introduction to Artificial Intelligence - Winter 2017
- Page Content:**
 - Instructor:** Dan Weld (CSE 588)
 - TA:** Gagan Bansal
 - Office hours:** See [calendar](#) or by email.
 - Course Administration:**
 - Grading: Your grade will be 30% programming assignments, 10% paper reports, 10% class participation, 25% final exam, and 25% final project.
 - Use the [forum](#) for discussing class material.
 - [Dropbox](#) link for submitting assignments.
 - Email for reaching instructors: cse573-instr@cs.washington.edu
 - Late policy (tentative): You are allowed to use 4 late days throughout the quarter. After this, assignments turned in late will incur a penalty of 20% for each day.
 - Schedule, Reading & Lecture Slides:** All this stuff is on the class [calendar](#).
 - Textbooks:**
 - Required: Stuart Russell & Peter Norvig, [Artificial Intelligence: A Modern Approach](#), Prentice-Hall, Third Edition (2009) [R&N].
 - Optional:
 - Richard Sutton & Andrew Barto, [Reinforcement Learning: An Introduction](#), MIT Press, (limited chapters; freely available online; [second edition draft](#)) [S&B]
 - Mausam & Andrey Kolobov [Planning with Markov Decision Processes](#), Morgan Claypool, 2012. (Access is free from on campus) [M&K].
 - Csaba Szepesvari [Algorithms for Reinforcement Learning](#), Morgan Claypool, 2010. (Access is free from on campus) [S].
 - Ian Goodfellow, Yoshua Bengio, and Aaron Courville "Deep Learning" MIT Press, 2016 [GB&C] Chapters available [online](#)
 - Programming Assignments:** This quarter, we will do the [Berkeley Pac-Man Projects](#) originally created by John DeNero and Dan Klein. Please complete the versions listed below, as they differ in places from the Berkeley versions. Use Python 2.x. Assignments will be done using pair programming with two person teams. See the [calendar](#) for details.
 - Final Project:** See [here](#).

We are working on Drive please cooperate with us!!!

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8. Brains, Minds and Machines Summer Course

MIT

This course explores the problem of intelligence—its nature, how it is produced by the brain and how it could be replicated in machines—using an approach that integrates cognitive science, which studies the mind; neuroscience, which studies the brain; and computer science and artificial intelligence, which study the computations needed to develop intelligent machines. Materials are drawn from the Brains, Minds and Machines Summer Course offered annually at the Marine Biological Laboratory

<https://ocw.mit.edu/resources/res-9-003-brains-minds-and-machines-summer-course-summer-2015/>

9. Design and Analysis of Algorithms

MIT

This is an intermediate algorithms course with an emphasis on teaching techniques for the design and analysis of efficient algorithms, emphasizing methods of application. Topics include divide-and-conquer, randomization, dynamic programming, greedy algorithms, incremental improvement, complexity, and cryptography.

<https://ocw.mit.edu/courses/electrical-engineering-and-computer-science/6-046j-design-and-analysis-of-algorithms-spring-2015/>

The screenshot shows a web browser window with multiple tabs open. The active tab displays the course page for 'Design and Analysis of Algorithms' (6.046J) from Spring 2015. The page features a large blue circular graphic with the number '6.046' in the center, surrounded by a flow network diagram and the word 'Spring 2015' at the bottom. To the left is a sidebar with social sharing icons (Facebook, Twitter, Google+, LinkedIn, etc.) and links to 'COURSE HOME', 'SYLLABUS', 'CALENDAR', 'INSTRUCTOR INSIGHTS', 'LECTURE NOTES', 'LECTURE VIDEOS', 'RECITATION NOTES', 'RECITATION VIDEOS', 'ASSIGNMENTS', 'EXAMS', and 'DOWNLOAD COURSE MATERIALS'. The main content area includes sections for 'Instructor(s)', 'MIT Course Number', 'As Taught In', 'Level', and 'Course Features' (Video lectures, Lecture notes, Exams and solutions, Instructor insights, Captions/transcript, Assignments: problem sets with solutions, Recitation videos). A 'Course Description' box provides a brief overview of the course's focus on algorithm design and analysis. The browser interface shows other tabs for 'ML Free courses - Google Docs', 'Natural Language Processing', and 'Cognitive Class - Lat'. The taskbar at the bottom includes icons for various applications like Microsoft Word, Excel, and File Explorer.

10. Natural Language Processing

University of Washington RNN LSTM GRU

<https://courses.cs.washington.edu/courses/cse517/17wi/>

The screenshot shows a Microsoft Edge browser window with the following details:

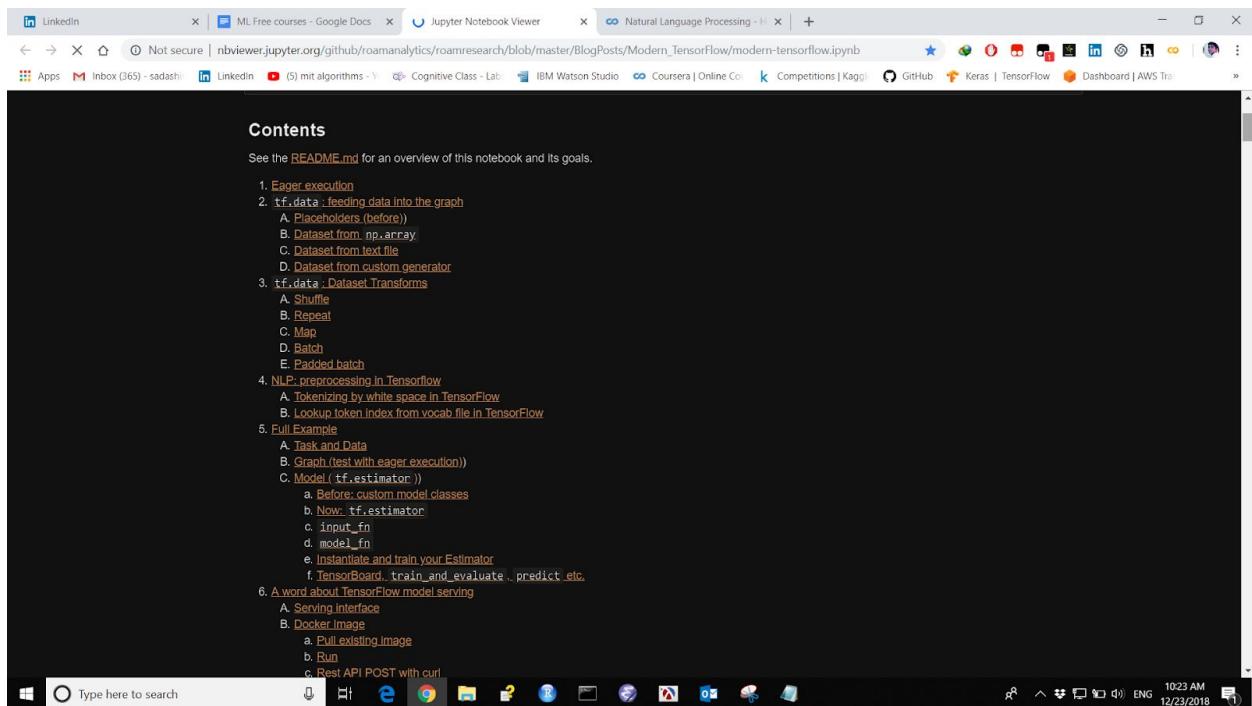
- Address Bar:** https://courses.cs.washington.edu/courses/cse517/17wi/
- Tab Bar:** LinkedIn, ML Free courses - Google Docs, CSE 517 - Natural Language Pro..., Natural Language Processing - i... (active tab)
- Toolbar:** Apps, Inbox (36), LinkedIn, (5) mit-algorithms..., Cognitive Class - Lat..., IBM Watson Studio, Coursera | Online Co..., Competitions | Kaggle, GitHub, Keras | TensorFlow, Dashboard | AWS Tr...
- Content Area:**
 - Header:** University of Washington Department of Computer Science & Engineering
 - Title:** CSE 517 - Natural Language Processing - Winter 2017
 - Lecture:** WF 1:30 - 2:50pm in LOW 205
 - Instructor:** Yejin Choi (yejin at cs dot washington dot edu)
 - Office hours:** Fri 3:00pm - 4:00pm at CSE 578 (and by appointment)
 - TA:** Nicholas FitzGerald (nfitz at cs dot washington dot edu)
Office hours: Thu 1pm - 2pm @ CSE 218 (and by appointment)
 - TA:** Minjoon Seo (minjoon at cs dot washington dot edu)
Office hours: Mon 3pm - 4pm @ CSE 021 (and by appointment)
- Schedule Table:** Approximate Schedule

Week	Dates	Topics & Lecture Slides	Notes (Required)	Textbook & Recommended Reading
1	Jan 4, 6	I. Introduction [slides] II. Words: Language Models (LMs) [slides]	LM	JM 4.1-4; MS 6
2	Jan 11, 13	II. Words: Unknown Words (Smoothing) [slides] III. Sequences: Hidden Markov Models (HMMs) [slides]	HMM	JM 4.5-7; MS 6; JM 5.1-5.3; 6.1-6.5; MS 9, 10.1-10.3
3	Jan 18, 20	III. Sequences: Hidden Markov Models (HMMs) [slides] V. Trees: Probabilistic Context Free Grammars (PCFG) [slides]	Forward-backward, PCFG	JM 6.6-6.8; JM 13-14; MS 11-12
4	Jan 25, 27	V. Trees: Grammar Refinement [slides] V. Trees: Dependency Grammars & Mildly Context-Sensitive Grammars [slides]	Lexicalized PCFG, Inside-outside	Edmond-Chu-Liu
5	Feb 1, 3	III. Sequences: Sequence Tagging [slides] IV. Learning (Feature-Rich Models): Log-Linear Models [slides] IV. Learning (Structural Graphical Models): Conditional Random Fields (CRFs) [slides]	LogLinear, MEMMs, CRFs	
6	Feb 8, 10	VI. Translation: Alignment Models & Phrase-based MT [slides]	IBM Models 1 and 2, Phrase MT, EM	JM 25; MS 13
7	Feb 15, 17	VII. Semantics: Frame Semantics [slides] VII. Semantics: Distributed Semantics, Embeddings [slides]	IMv3 Vector Semantics, Dense Vectors, Frame Semantics	JM 19.4; JM 20.7
8	Feb 22, 24	VIII. Deep Learning: Neural Networks [slides]		
9	Mar 1, 3	VIII. Deep Learning: More NNs		
10	Mar 8, 10	VIII. Deep Learning: Yet More NNs		

- Bottom Bar:** Type here to search, taskbar icons, system status (R9, ENG, 10:22 AM, 12/23/2018)

11 Useful Jupyter Notebook for coding

http://nbviewer.jupyter.org/github/roamanalytics/roamresearch/blob/master/BlogPosts/Modern_TensorFlow/modern-tensorflow.ipynb



12 AI Saturday learning plan ML DL AI

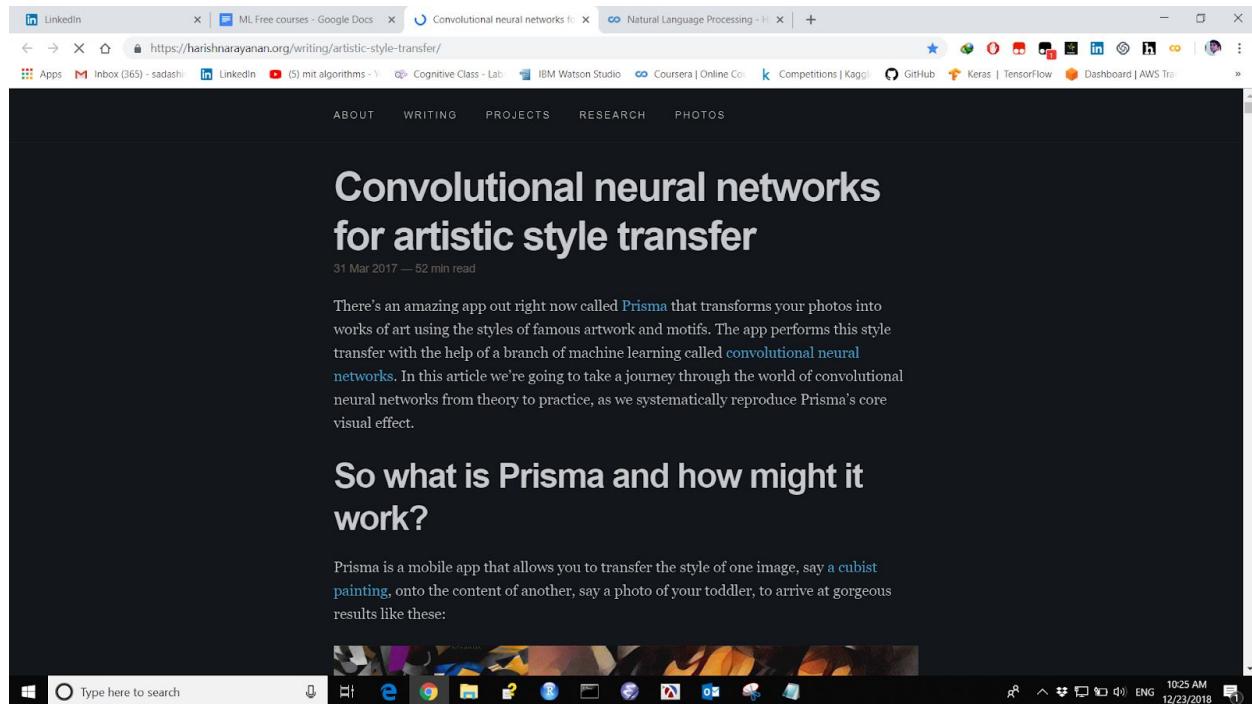
<https://docs.google.com/document/d/1yLjTcuaQSE10uDUDKrvfQO2-FIAdWv8ZC5zH0SyBHY8/edit>

The screenshot shows a Google Docs document titled "AI Saturdays Participant Guide (Public)". The document is in "View only" mode. On the left, there is an "Outline" sidebar with a tree view of the document's structure. The main content area displays a table of contents with page numbers:

Section	Page Number
Welcome to the Global AI Saturdays Community!	3
What is AI Saturdays	3
Vision	3
Our Mission	3
AI6 Cycle 2 Timeline	4
2018	4
2019	4
Further Perks of being part of the AI Saturdays community	4
Certification of Participation For Ambassadors	5
Certification of Participation For participants	5
AI Saturdays Special Recognition	5
AI Saturdays Fellow	5
AI Saturdays Top Achiever	6
Alumni Network	6
The AI6 Core Team	7
Important Links for AI6	7
With Love, from Nurture.AI	8

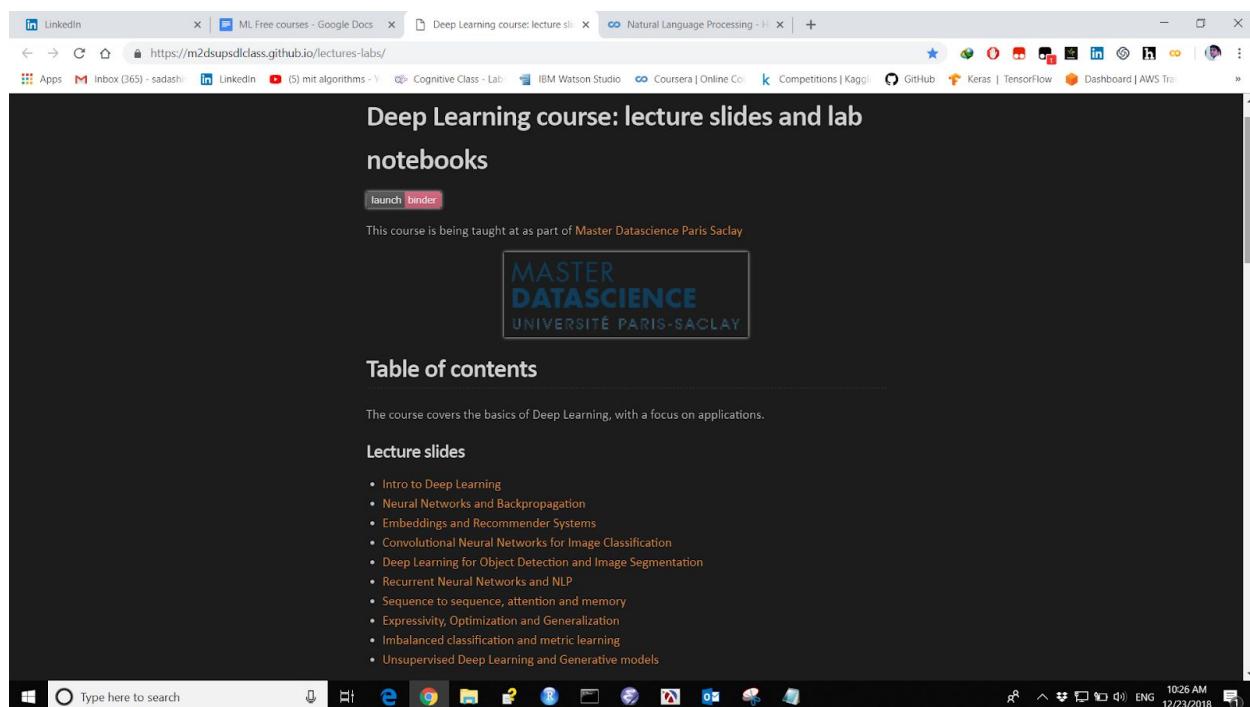
13 Convolutional Neural Network for artistic style transfer

<https://harishnarayanan.org/writing/artistic-style-transfer/>



14 Deep Learning course: lecture slides and lab notebooks

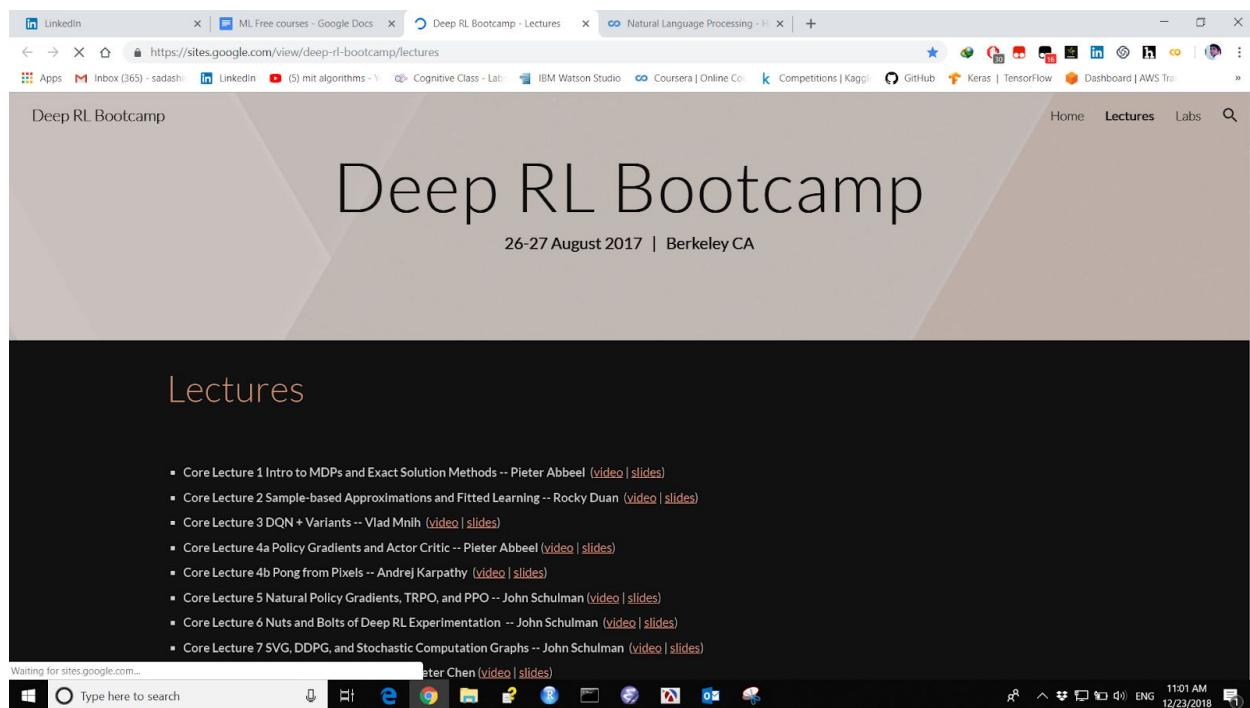
<https://m2dsupsdlclass.github.io/lectures-labs/>



15 Deep RL BOOTCAMP

Contains Lectures slides books.

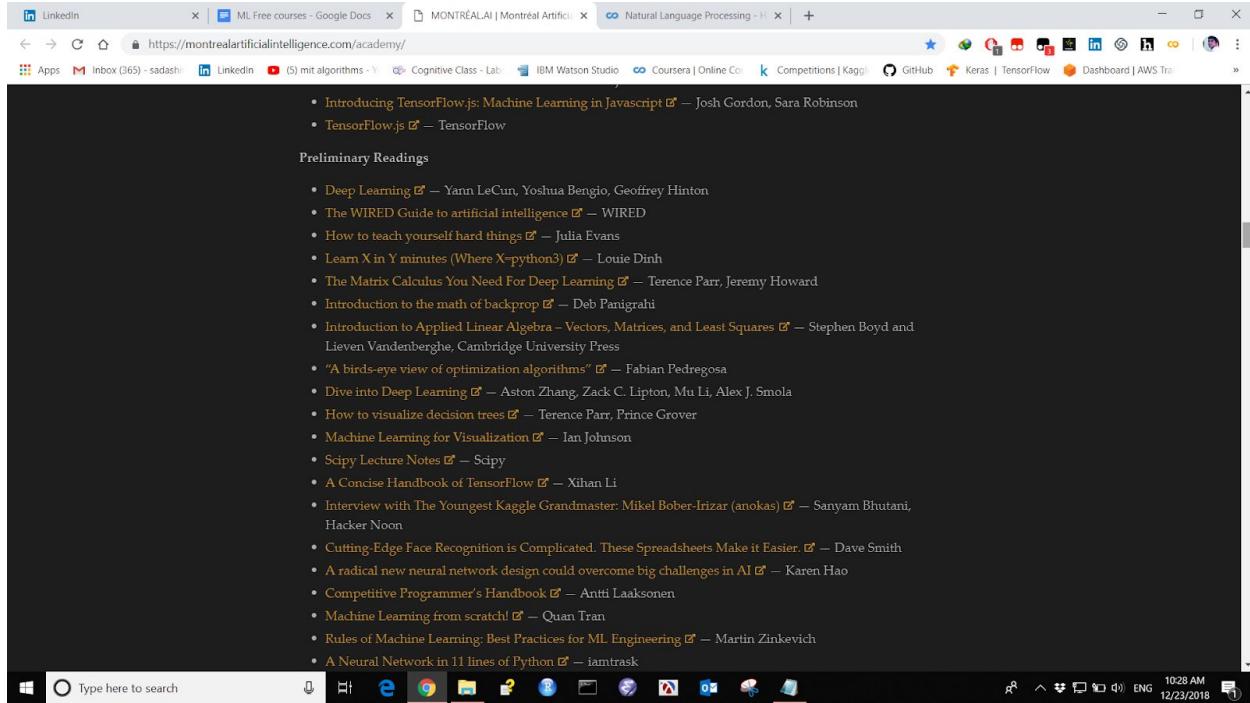
<https://sites.google.com/view/deep-rl-bootcamp/lectures>



16 monteral.ai

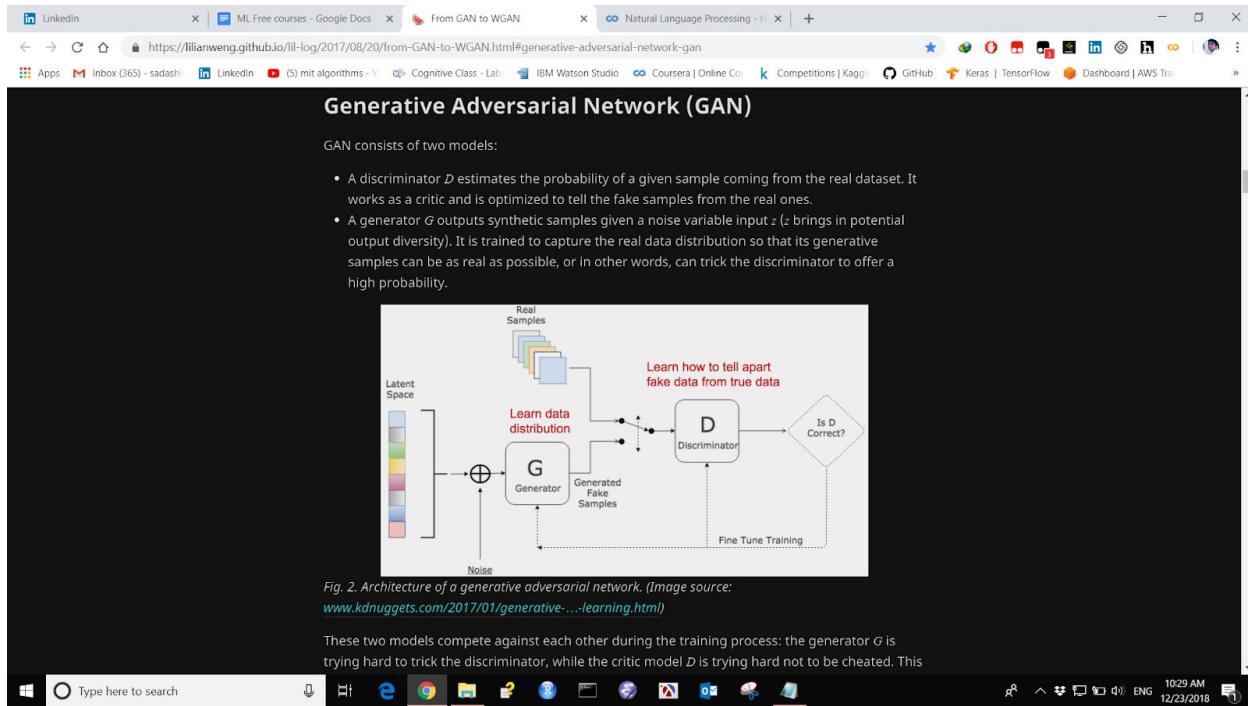
Contain ML AI Lectures Slides Books

<https://montrealartificialintelligence.com/academy/>



17 From GAN to WGAN

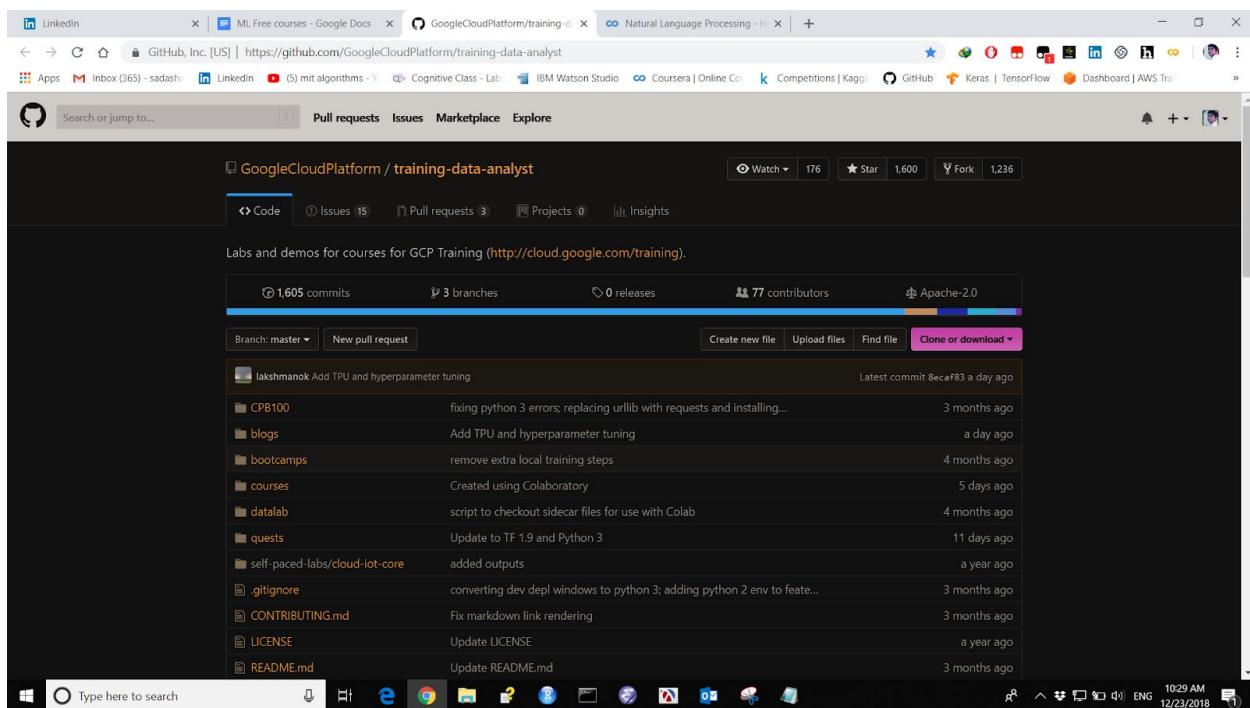
<https://lilianweng.github.io/lil-log/2017/08/20/from-GAN-to-WGAN.html#generative-adversarial-network-gan>



18 Google cloud ML Courses Github repository

Contain Google cloud repository code from Google cloud training course.

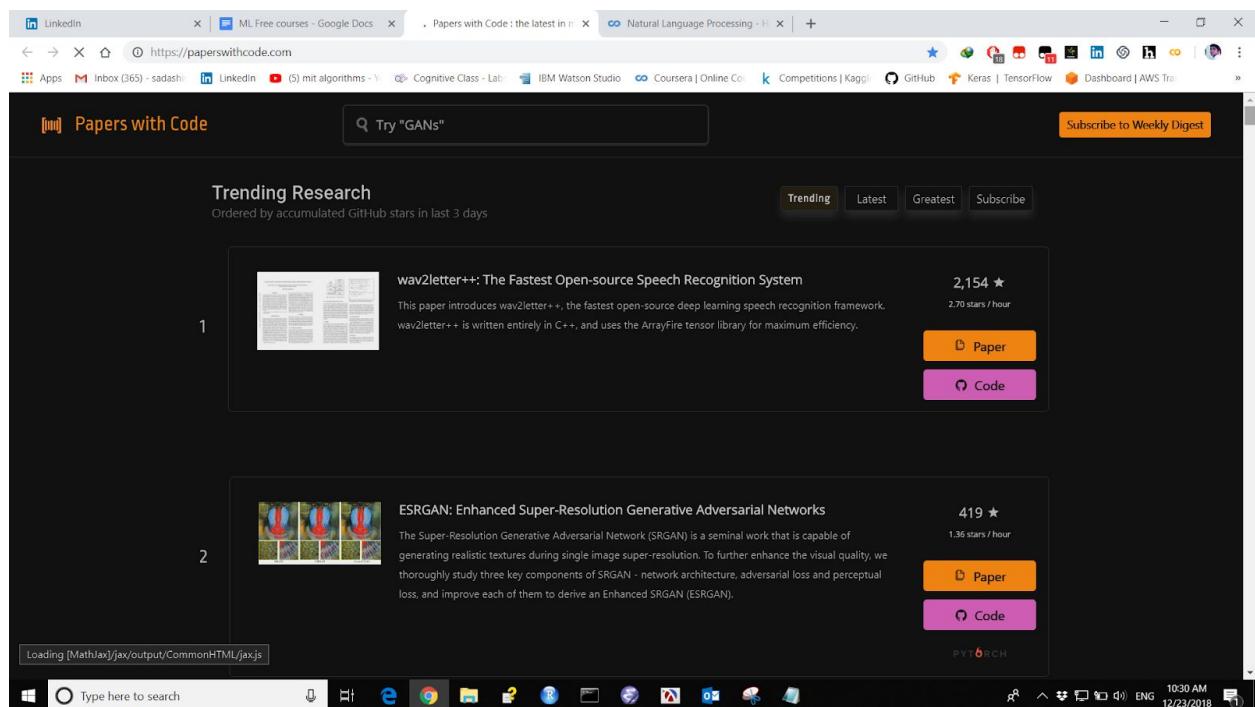
<https://github.com/GoogleCloudPlatform/training-data-analyst>



19 Deep learning Machine learning Papers with code

Contain Papers of ML DL with code.

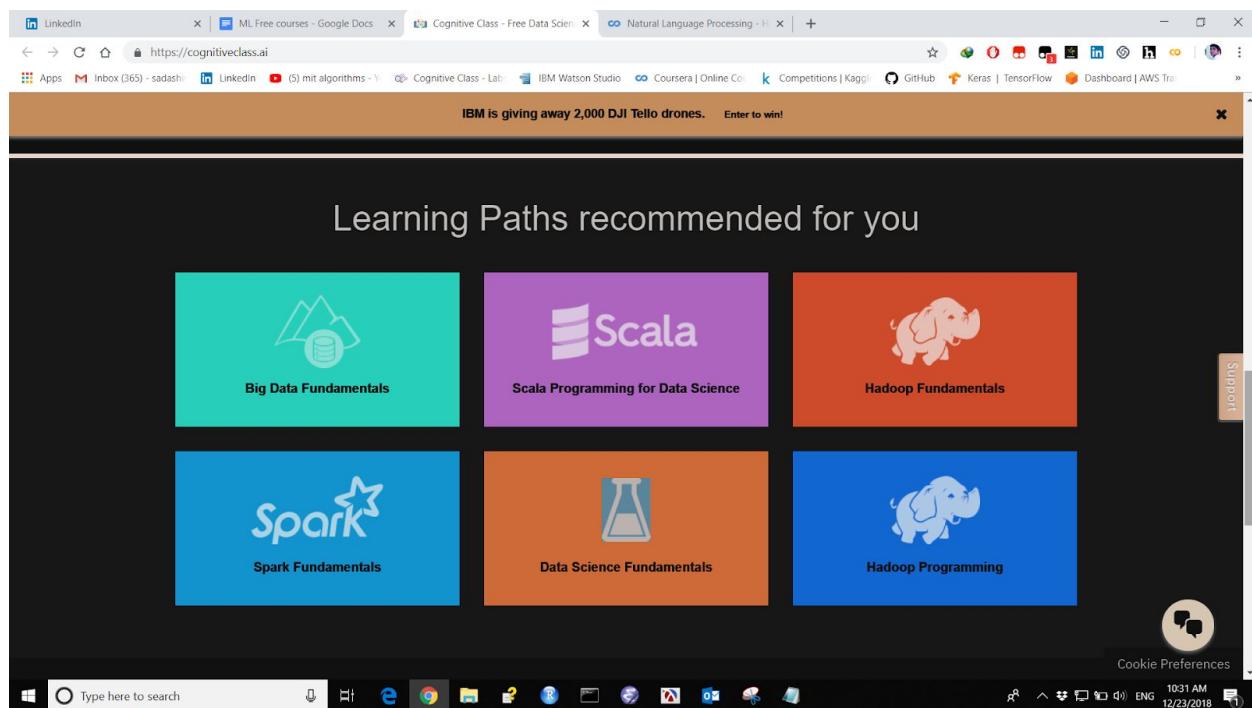
<https://paperswithcode.com/>



20 Cognitive class By IBM for data science Machine learning

Contain spark Scala Data science track path ML track path Hands on Chatbot.

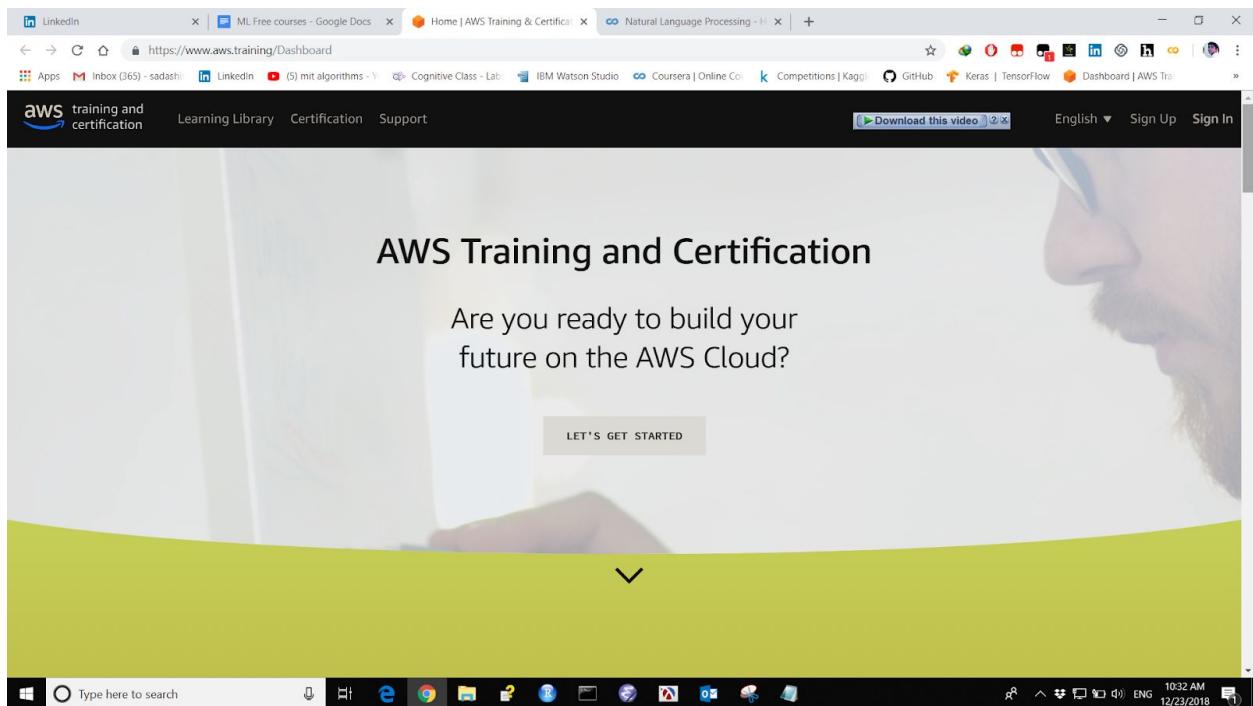
<https://cognitiveclass.ai/>



21 AWS Training BY Amazon to learn ML AI Data Science with certificate

AWS training with certificates for free make your career in AWS Cloud course contain ML DL AI DS.

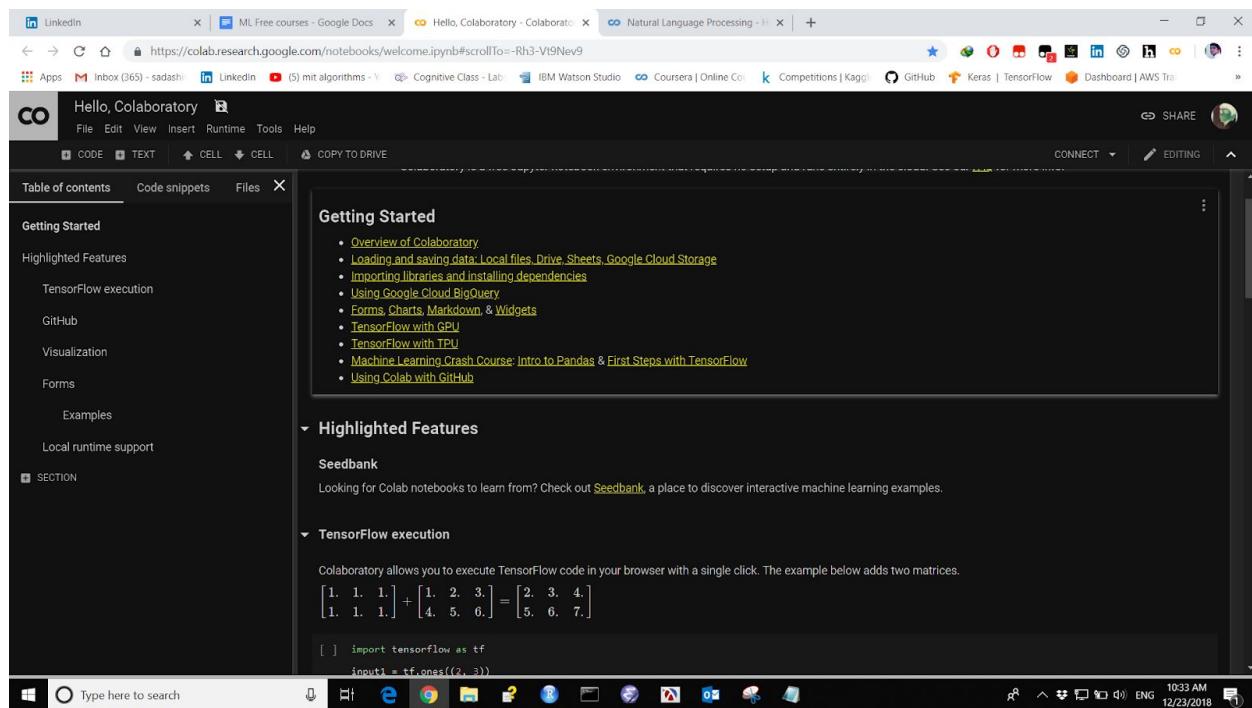
<https://www.aws.training/Dashboard>



22 Google colab to learn with practice on Cloud

Contain Google colab on cloud

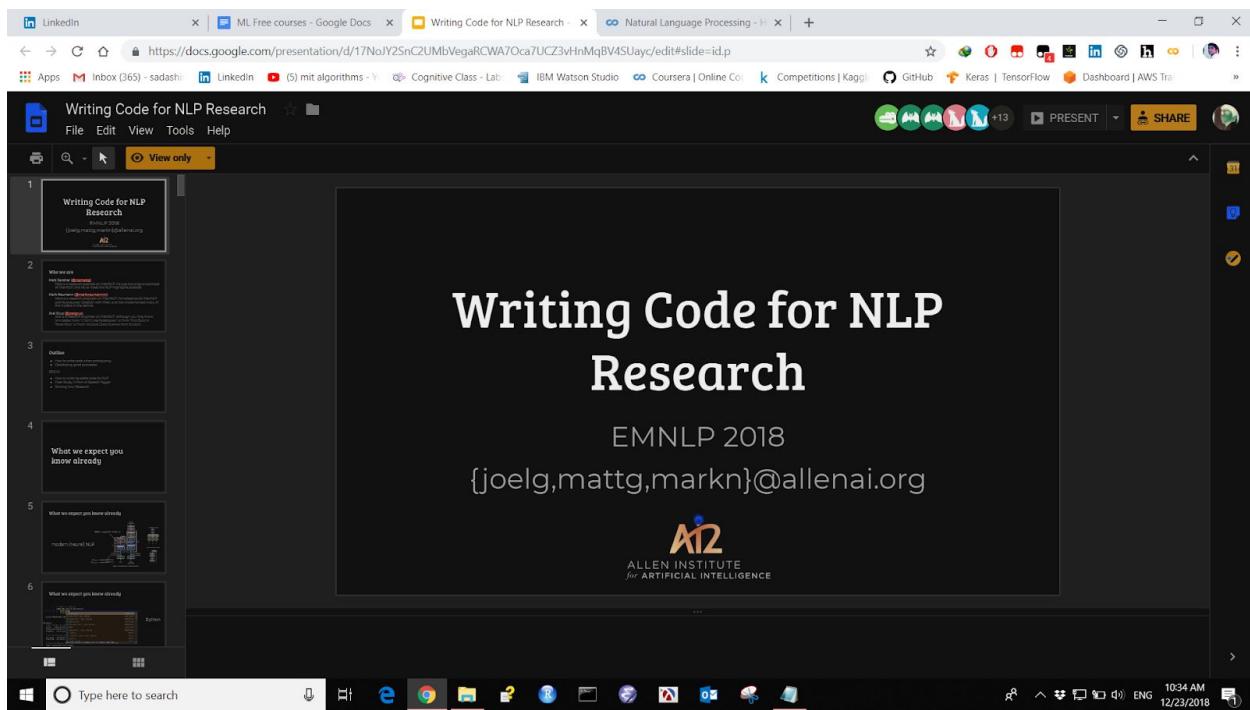
<https://colab.research.google.com/notebooks/welcome.ipynb#scrollTo=-Rh3-Vt9Nev9>



23 NLP Notebook

A Useful Book - Natural Language processing contains Code and Algorithm.

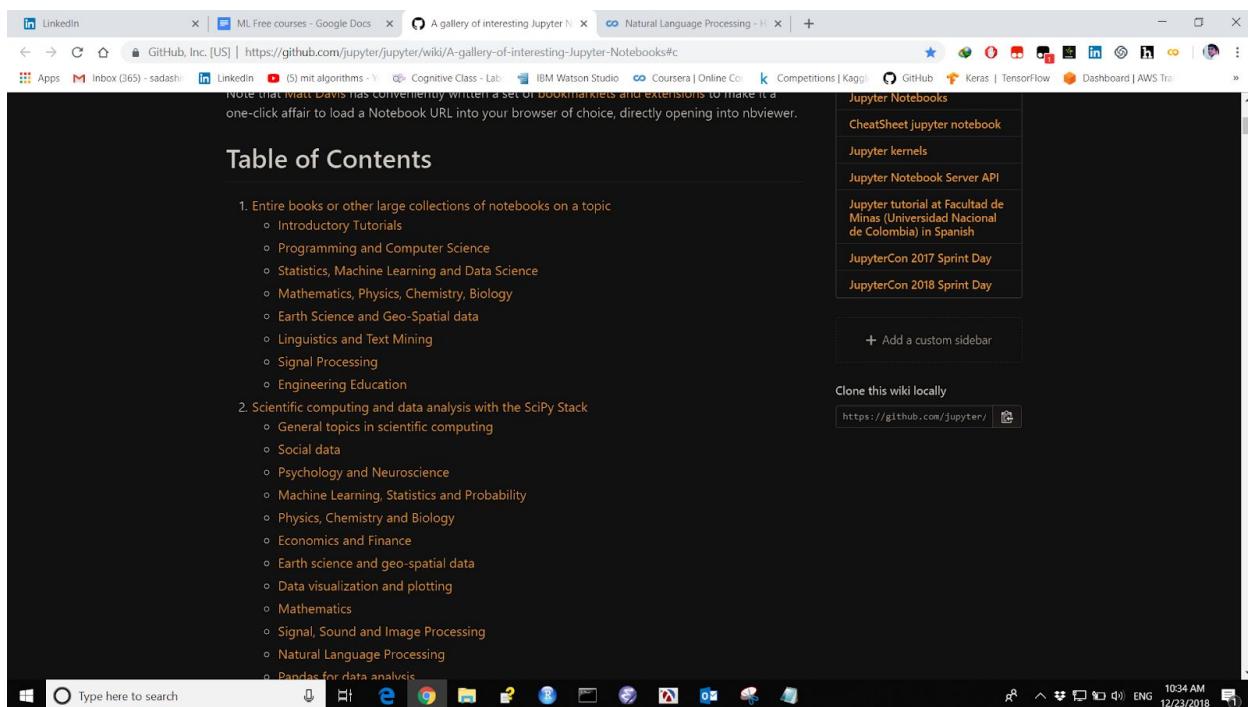
<https://docs.google.com/presentation/d/17NoJY2SnC2UMbVegaRCWA7Oca7UCZ3vHnMqBV4SUayc/edit#slide=id.p>



24 A Gallery of Interesting Notebook

Contains Interesting Code in python for ML DL.

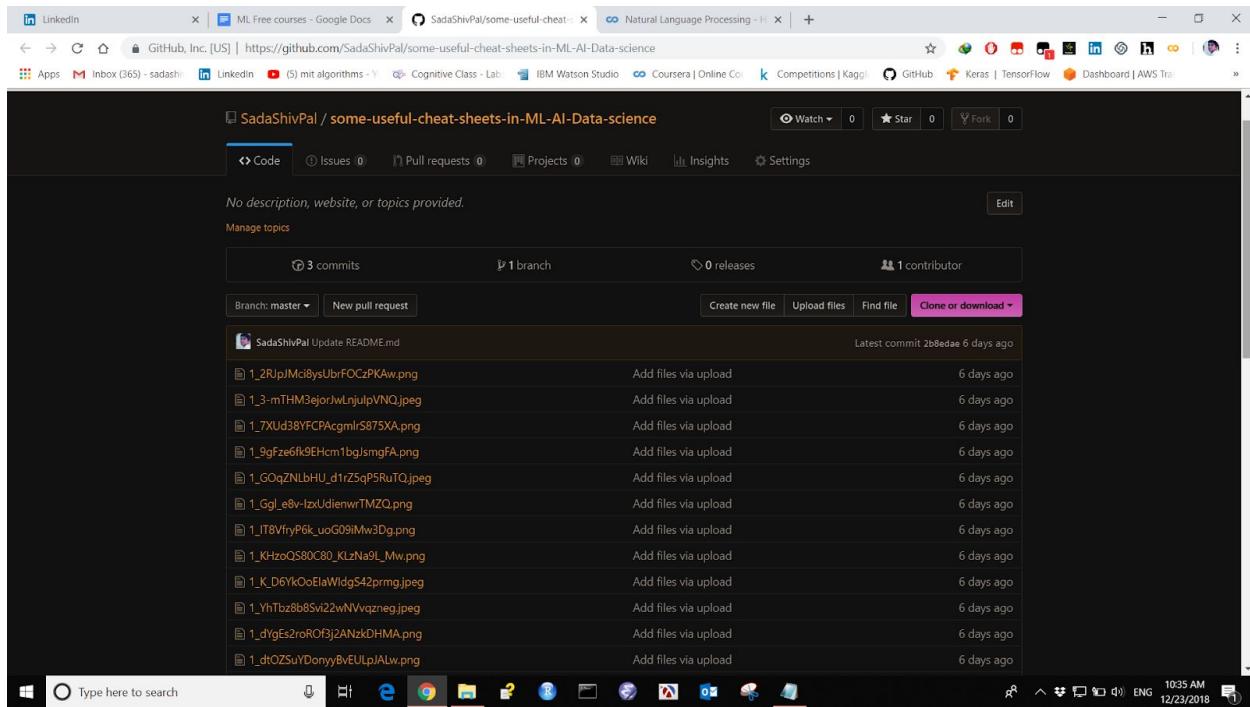
<https://github.com/jupyter/jupyter/wiki/A-gallery-of-interesting-Jupyter-Notebooks#c>



25. Some Useful Cheat Sheets

Pics of useful Cheat sheets containing Pandas numpy ML AI DS cheat sheets.

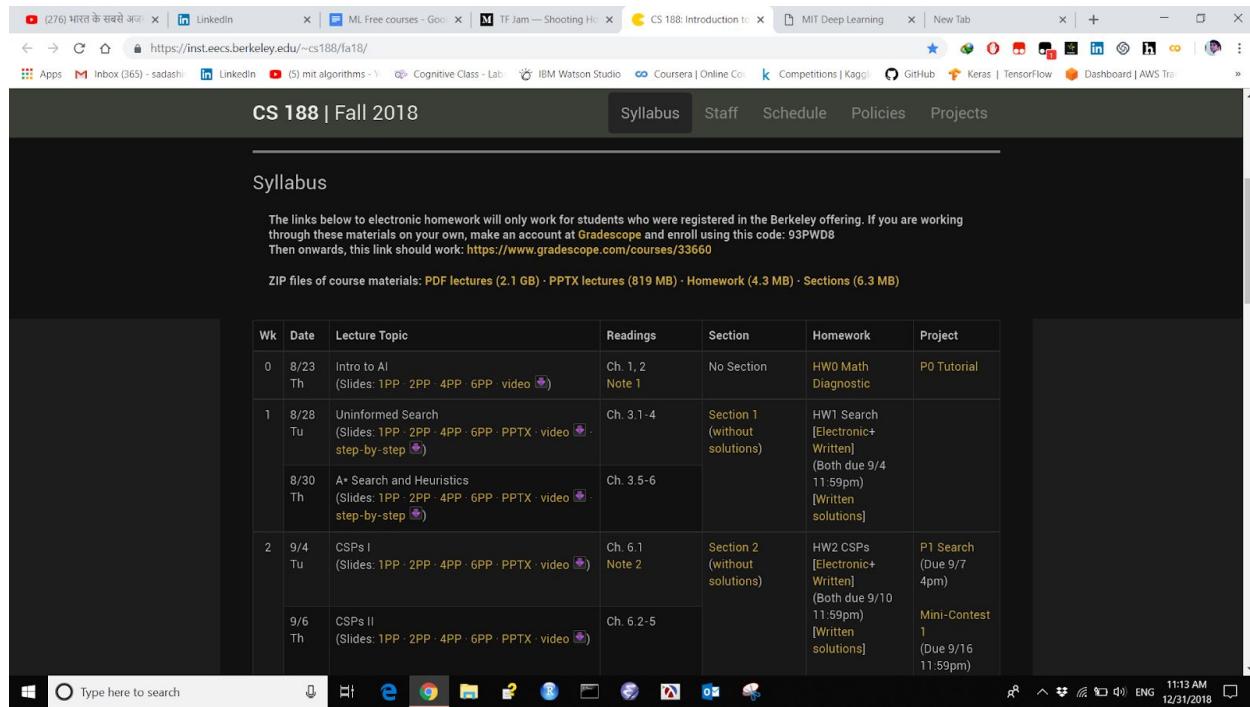
<https://github.com/SadaShivPal/some-useful-cheat-sheets-in-ML-AI-Data-science>



jh

Deep Learning Lectures UC Berkeley **Register for Fall2018**

<https://inst.eecs.berkeley.edu/~cs188/fa18/>



The screenshot shows a web browser window with multiple tabs open at the top. The active tab is titled "CS 188: Introduction to Deep Learning". Below the tabs, the browser's address bar displays the URL <https://inst.eecs.berkeley.edu/~cs188/fa18/>. The main content area of the browser shows the "Syllabus" page for CS 188 Fall 2018. The page has a dark header with the course name and a navigation menu below it. The main content is titled "Syllabus" and includes a note about electronic homework, a link to course materials (PDF lectures, PPTX lectures, Homework, Sections), and a table of contents for weeks 0, 1, and 2.

Wk	Date	Lecture Topic	Readings	Section	Homework	Project
0	8/23 Th	Intro to AI (Slides: 1PP · 2PP · 4PP · 6PP · video)	Ch. 1, 2 Note 1	No Section	HW0 Math Diagnostic	P0 Tutorial
1	8/28 Tu	Uninformed Search (Slides: 1PP · 2PP · 4PP · 6PP · PPTX · video · step-by-step)	Ch. 3.1-4	Section 1 (without solutions)	HW1 Search [Electronic+ Written] (Both due 9/4 11:59pm) [Written solutions]	
	8/30 Th	A* Search and Heuristics (Slides: 1PP · 2PP · 4PP · 6PP · PPTX · video · step-by-step)	Ch. 3.5-6			
2	9/4 Tu	CSPs I (Slides: 1PP · 2PP · 4PP · 6PP · PPTX · video)	Ch. 6.1 Note 2	Section 2 (without solutions)	HW2 CSPs [Electronic+ Written] (Both due 9/10 11:59pm) [Written solutions]	P1 Search (Due 9/7 4pm) Mini-Contest 1 (Due 9/16 11:59pm)
	9/6 Th	CSPs II (Slides: 1PP · 2PP · 4PP · 6PP · PPTX · video)	Ch. 6.2-5			

We are working on Drive please cooperate with us!!!

Sadashiv

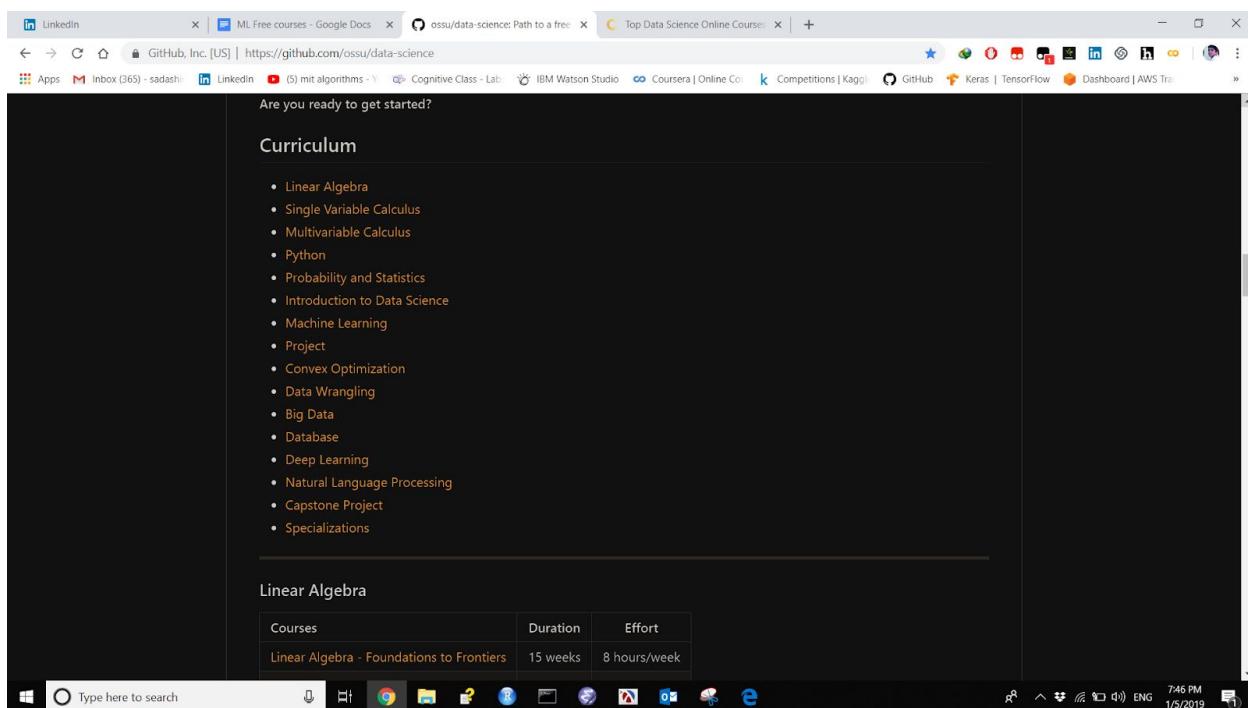
MIT Deep Learning

<https://deeplearning.mit.edu/>

The screenshot shows a Microsoft Edge browser window with the URL <https://deeplearning.mit.edu/> in the address bar. The page title is "MIT Deep Learning". The content on the page discusses MIT courses and lectures on deep learning, reinforcement learning, autonomous vehicles, and artificial intelligence taught by Lex Fridman. It provides a list of six things to do, including signing up for a mailing list, pre-registering for courses, connecting with Lex on social media, joining a Slack channel, and watching lecture videos. Below this, there is a section titled "January 2019 Courses" which lists three courses: 6.S094, 6.S091, and 6.S093. The browser's taskbar at the bottom shows various open tabs and system icons.

Open Source Society University

<https://github.com/ossu/data-science>



The screenshot shows a Windows desktop environment. A web browser window is open, displaying the OSSU Data Science curriculum. The browser has several tabs at the top: LinkedIn, ML Free courses - Google Docs, ossu/data-science: Path to a free..., and Top Data Science Online Courses. The main content area of the browser shows the following:

Are you ready to get started?

Curriculum

- Linear Algebra
- Single Variable Calculus
- Multivariable Calculus
- Python
- Probability and Statistics
- Introduction to Data Science
- Machine Learning
- Project
- Convex Optimization
- Data Wrangling
- Big Data
- Database
- Deep Learning
- Natural Language Processing
- Capstone Project
- Specializations

Linear Algebra

Courses	Duration	Effort
Linear Algebra - Foundations to Frontiers	15 weeks	8 hours/week

At the bottom of the screen, there is a taskbar with various icons for apps like File Explorer, Google Chrome, and Microsoft Edge. A search bar says "Type here to search". On the right side of the taskbar, there are system status icons and the date/time: "7:46 PM 1/5/2019".

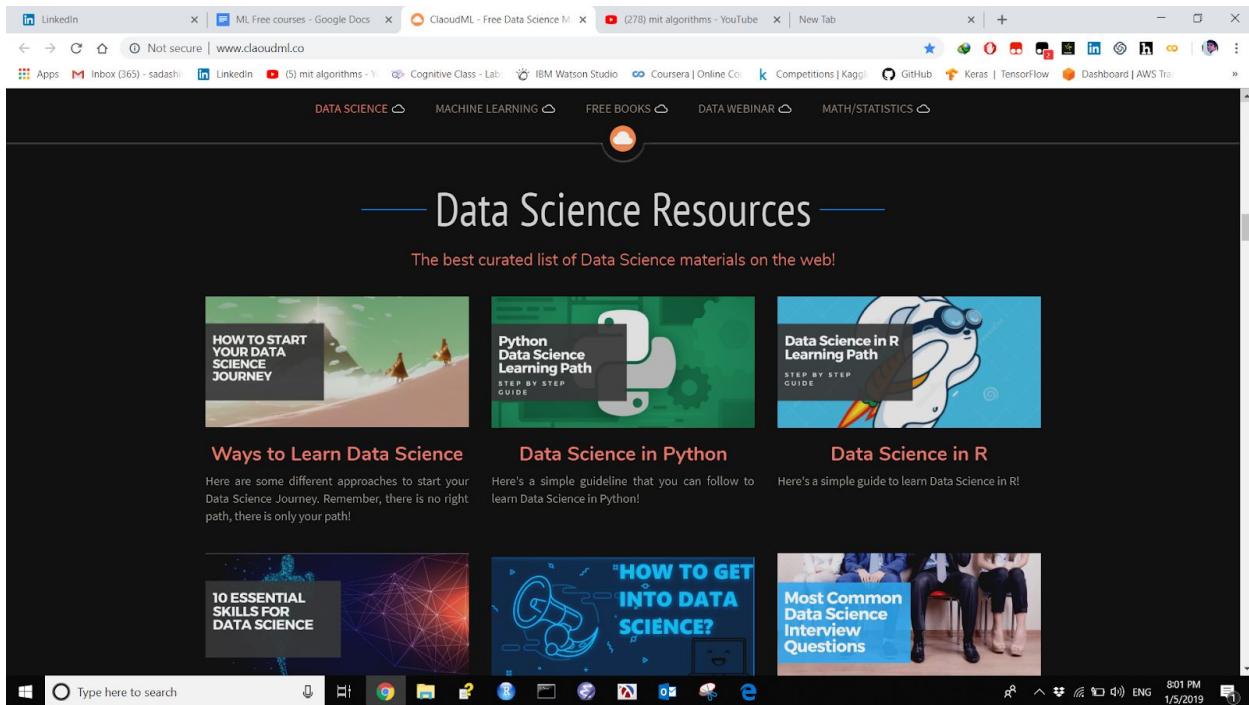
Top Data Science Online Courses in 2018

<https://www.learndatasci.com/best-data-science-online-courses/>

The screenshot shows a web browser window with several tabs open. The active tab is titled "Top Data Science Online Courses in 2018". The main content area displays a list of courses included in a specialization, followed by a section on the "Machine Learning Specialization". Below this, there's a brief description of what you'll learn in the specialization. A sidebar on the right contains a "Contents Index" with links to various Coursera specializations and other resources. At the bottom of the sidebar, there's a newsletter sign-up form with fields for email and a "Subscribe" button.

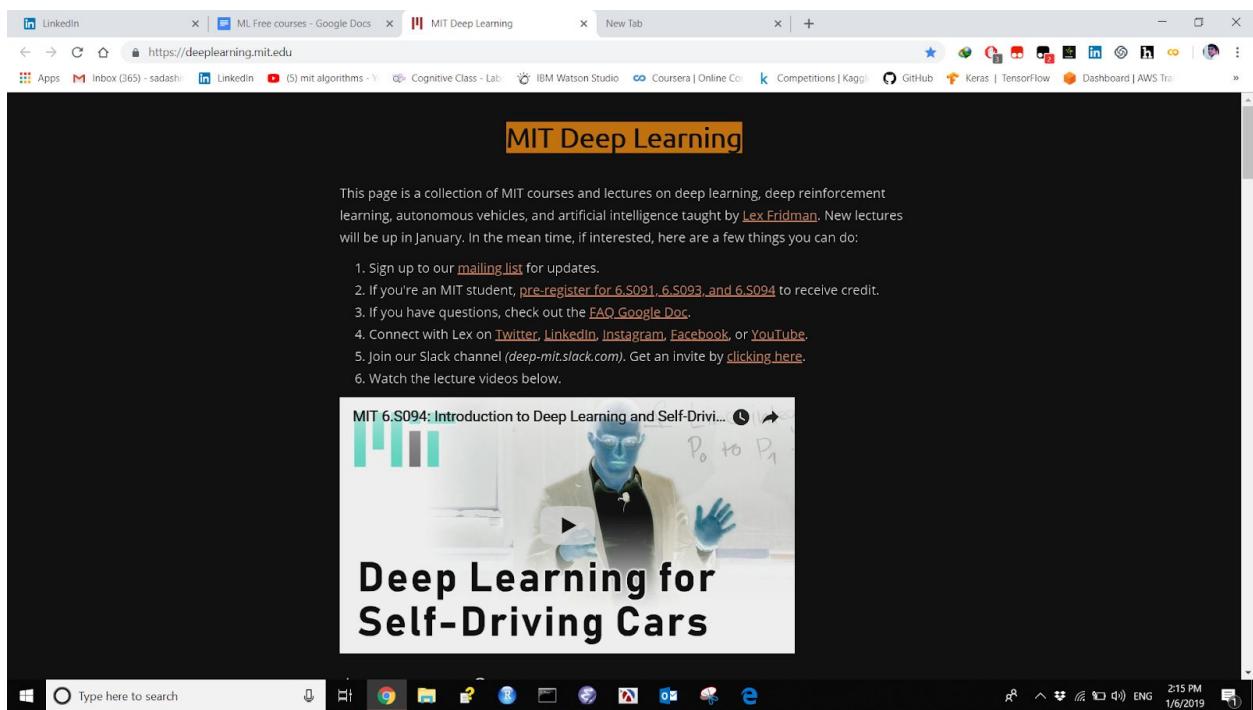
The best curated list of Data Science materials on the web!

<http://www.claoudml.co/>



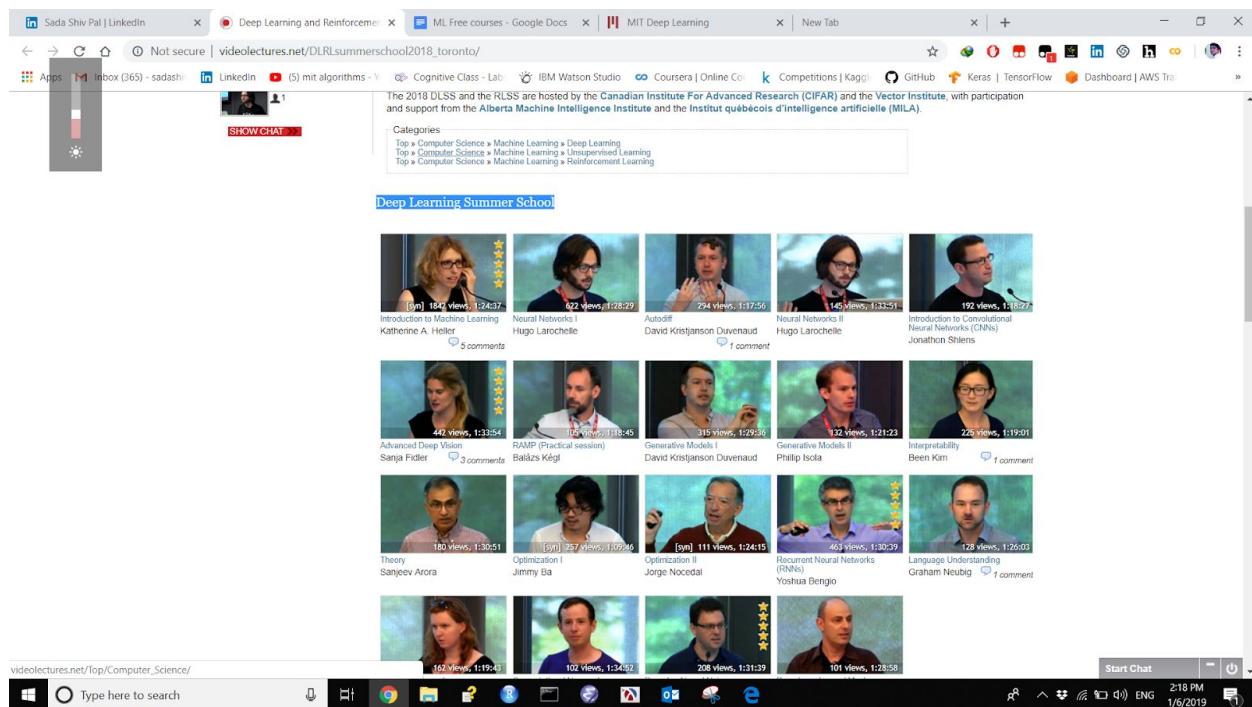
MIT Deep Learning

<https://deeplearning.mit.edu/>



Deep Learning Summer School

http://videolectures.net/DLRLsummerschool2018_toronto/

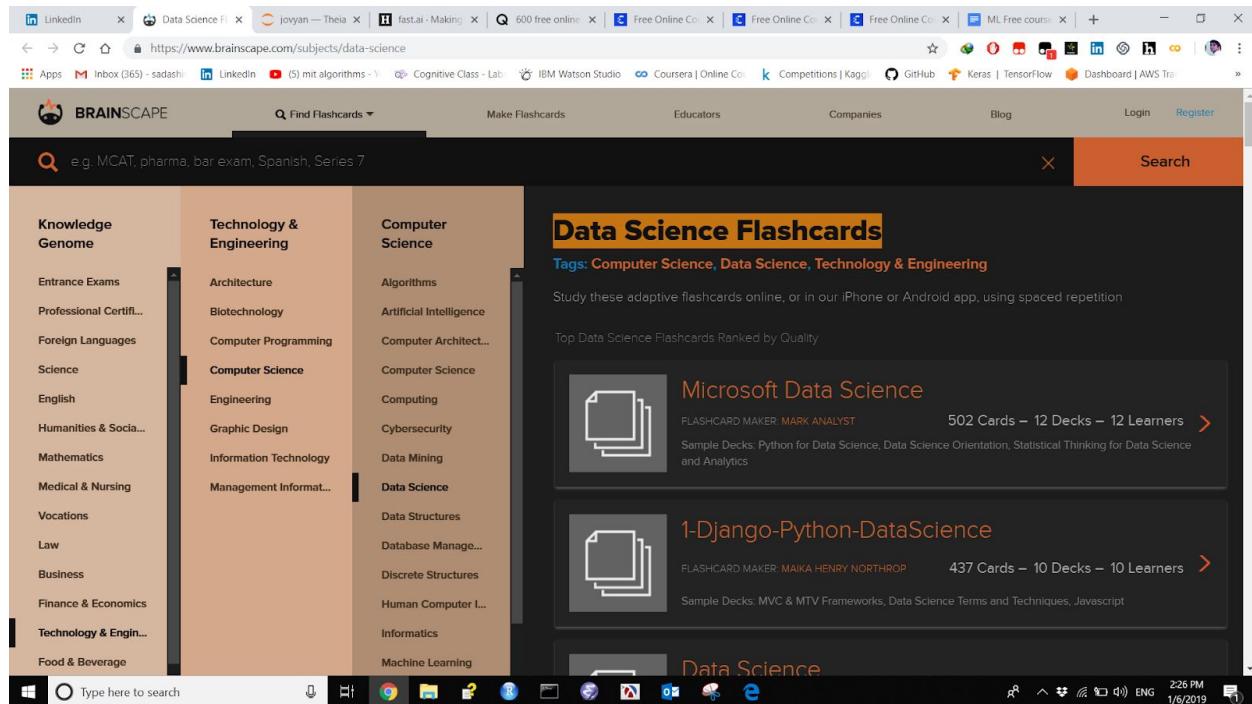


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Sadashiv

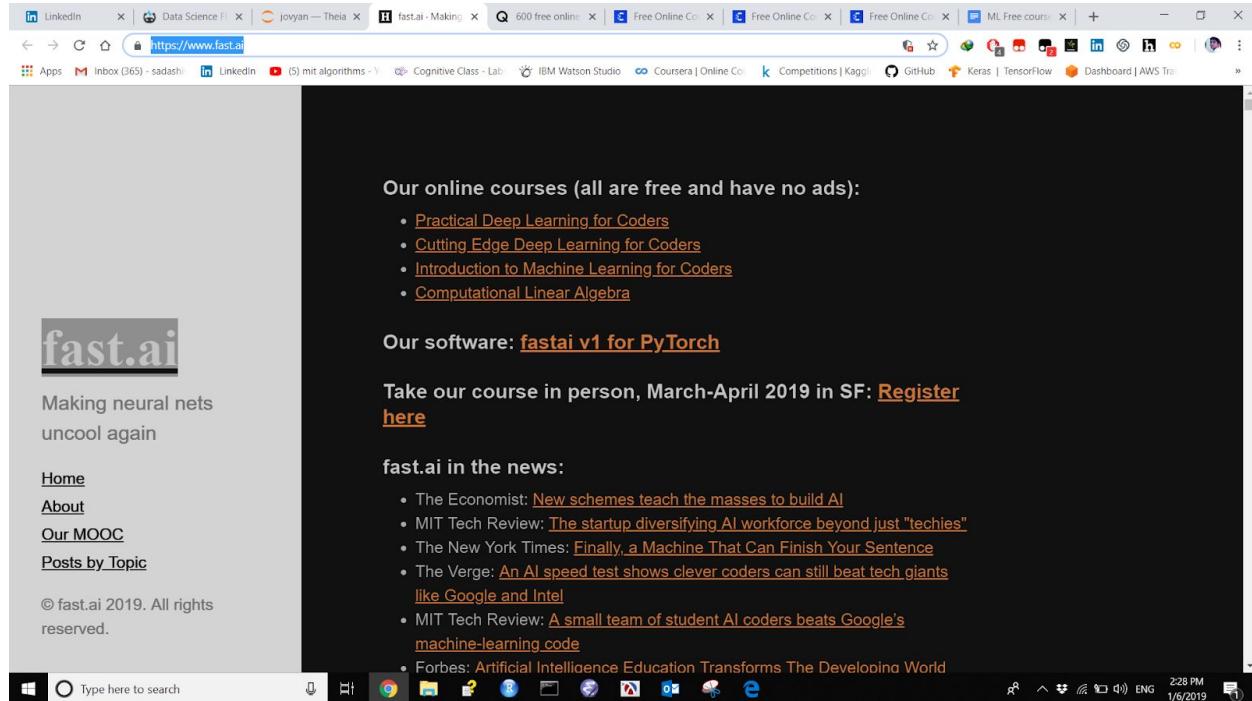
Data Science Flashcards

<https://www.brainscape.com/subjects/data-science>



Fast.AI

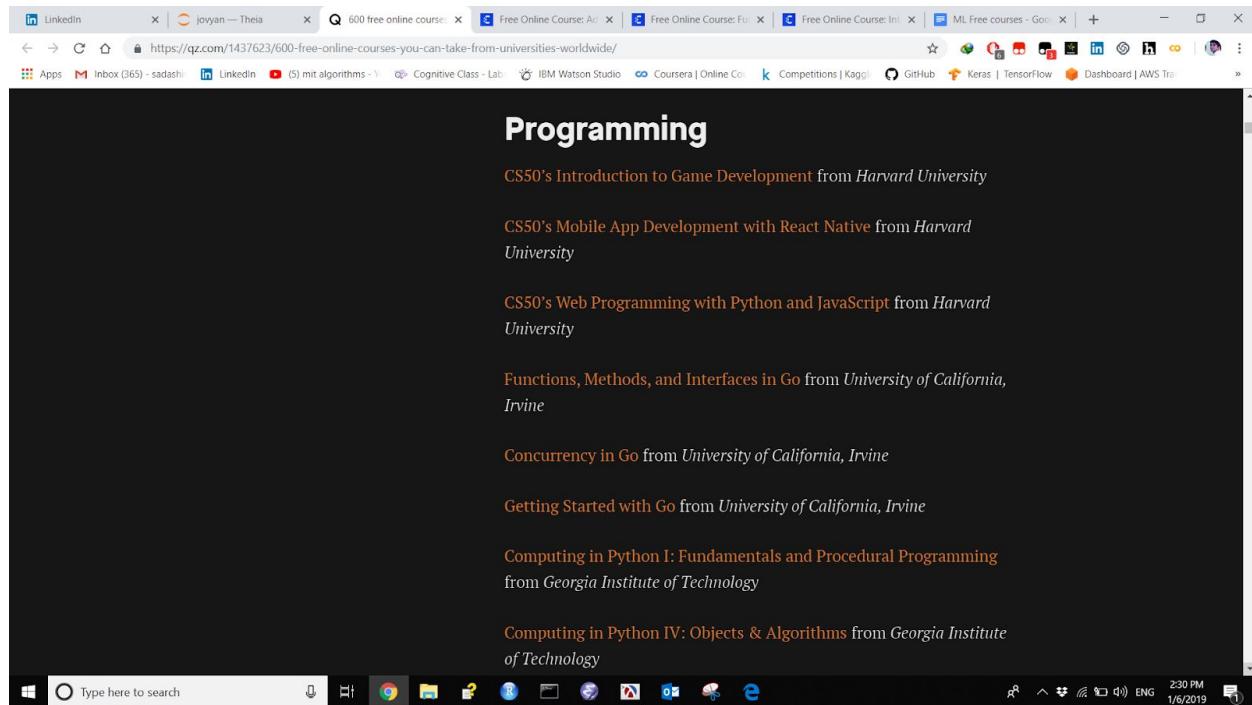
<https://www.fast.ai/>



[Fast.ai version-3](#)

190 universities just launched 600 free online courses. Here's the full list

<https://qz.com/1437623/600-free-online-courses-you-can-take-from-universities-worldwide/>



Advanced Algorithmics and Graph Theory with Python

<https://www.class-central.com/course/edx-advanced-algorithmics-and-graph-theory-with-python-12017>

The screenshot shows a web browser window with multiple tabs open. The active tab displays the course page for 'Advanced Algorithmics and Graph Theory with Python' on Class Central. The page includes a navigation bar with 'Overview', 'Syllabus', 'Help Center', 'Related Courses', and 'Reviews'. Below the navigation bar, it states: 'This course has received financial support from the Patrick and Lina Drahi Foundation.' To the right, there is a section for sharing course experience and a 'Write review' button. A sidebar advertisement for DataCamp offers 'Become a Data Scientist' with a link to 'datacamp.com'. At the bottom of the page, there is a 'Help Center' section. The browser's taskbar at the bottom shows various pinned icons and the system tray.

Fundamentals of Machine Learning

<https://www.class-central.com/course/complexity-explorer-fundamentals-of-machine-learning-11493>

The screenshot shows a web browser window with multiple tabs open at the top. The active tab displays the Class Central course page for 'Fundamentals of Machine Learning'. The page has a dark background. At the top left, it says 'CLASS CENTRAL Fundamentals of Machine Learning' with a 5-star rating. On the right, there's a purple button labeled 'Go to class' and a yellow button labeled 'Write review'. Below the title, there's a section titled 'Syllabus' containing a numbered list of 13 topics. To the right of the syllabus, there's a call-to-action box for 'Become a Data Scientist' from datacamp.com. At the bottom of the page, there's a Windows taskbar with various icons and a search bar.

Introduction to Machine Learning

<https://www.class-central.com/course/coursera-introduction-to-machine-learning-12086>

The screenshot shows a web browser window with multiple tabs open. The active tab displays the Class Central website, specifically the course page for 'Introduction to Machine Learning' offered by Coursera. The page includes a navigation bar with links for 'CLASS CENTRAL', 'Courses', 'MOOC Report', and a search bar. Below the navigation is a message about site compensation. The main content area features the course title 'Introduction to Machine Learning' in large letters, followed by 'Duke University via Coursera'. It shows a 5-star rating with 331 students interested. Below this are links for 'Overview', 'Syllabus', 'Help Center', 'Related Courses', and 'Reviews'. A large image of a brain and neural network is displayed. To the right, course details are listed under 'PROVIDER', 'SUBJECT', and '\$ COST'. The bottom of the screen shows a Windows taskbar with various pinned icons and a search bar.

Topic Modeling

Vowpal wabbit

<http://hunch.net/~vw/>

State of Art Modeling

<http://bigartm.org/>

Gensim

<https://radimrehurek.com/gensim/tutorial.html>

Textvisualization

<http://textvis.lnu.se/>