



## Data Science Grad Plan

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**Start:** 03/27/2019 **Paused days:** 7

Key <sup>?</sup>

Module	Duration	Comple...	Comple...
Attend a group orientation video meeting		N/A	03/28/2...
Hold your onboarding video meeting with your Pr...		N/A	03/22/2...
Mentorship		03/29/2...	03/20/2...
Orientation		03/29/2...	03/22/2...
Careers: Get to know the job landscape		03/30/2...	03/30/2...
Programming fundamentals in Python		04/11/2019	04/10/20...
Basic stats and probability with Python		05/02/2...	05/05/2...
Present your first capstone project		N/A	05/17/20...
Careers: networking		05/08/2...	06/20/2...
PM checkin: Mastering networking and meetups		N/A	07/26/2...
SQL for Data Scientists		05/11/2019	05/22/2...
Data visualization and exploration		05/15/20...	05/30/2...
Experimental design and A/B testing		05/22/2...	06/09/2...
Careers: applying, interviewing, negotiating, and ...		05/26/2...	07/13/20...
PM checkin: How to excel in interviews		N/A	07/26/2...
Do your first mock interview		N/A	07/26/2...
Model preparation		06/04/2...	07/18/20...
Supervised learning: solving classification proble...		06/07/2...	07/20/2...
<b>Supervised learning: solving regression problems</b>		<b>06/20/2...</b>	
What is a regression task?	2 hours	06/07/2...	07/21/20...
Simple linear regression with OLS (ordinary leas...	5.5 hours	06/09/2...	07/22/2...
Meeting (and not meeting) the assumptions of...	4 hours	06/10/2...	07/23/2...

Interpreting estimated coefficients	6.5 hours	06/13/20...	07/23/2...
Evaluating performance	2.5 hours	06/14/20...	07/24/2...
Making predictions	2.5 hours	06/15/20...	07/27/20...
Overfitting and regularization	4 hours	06/16/2...	07/28/2...
Challenge	10.5 hours	06/20/2...	
Supervised learning: similarity models >		06/21/20...	07/30/2...
PM checkin: Secrets to conquering supervised le...		N/A	
Supervised learning: random forest models		06/30/2...	07/30/2...
<b>Supervised learning: support vector machines</b>		<b>07/02/2...</b>	
Intro	0 hours	06/30/2...	07/30/2...
Linear support vector machines	1.5 hours	06/30/2...	07/30/2...
The kernel trick	1.5 hours	06/30/2...	07/30/2...
SVM extensions	40 minutes	07/01/20...	07/30/2...
Guided example and challenge	2.5 hours	07/02/2...	
<b>Supervised learning: boosting models</b>		<b>07/05/2...</b>	
Intro	0 hours	07/03/2...	
Gradient boosting	1.5 hours	07/03/2...	
Guided example	2.5 hours	07/04/2...	
Challenge: Which model?	2 hours	07/05/2...	
PM checkin: Getting prepared for your first prese...		N/A	
<b>Capstone: supervised learning</b>		<b>07/13/2...</b>	
Capstone: supervised learning	24 hours	07/13/20...	
Present your supervised learning capstone		N/A	
<b>Careers: professional branding</b>		<b>07/14/2...</b>	
Writing a winning resume	1.5 hours	07/13/20...	
Crafting a compelling LinkedIn profile	1.5 hours	07/13/20...	
The art of the cover letter	1.5 hours	07/14/20...	
<b>Unsupervised learning: an overview</b>		<b>07/15/2...</b>	
Why do we do this?	40 minutes	07/15/20...	
Power and problems	0 hours	07/15/20...	

Unsupervised or supervised?	27 minutes	07/15/20...
<b>Unsupervised learning: clustering</b>		<b>07/18/2...</b>
Clustering and K-means	2 hours	07/15/20...
Other approaches to clustering	2.5 hours	07/16/20...
Evaluating clusters	2.5 hours	07/17/2019
Challenge: The boston marathon	4 hours	07/18/20...
<b>Unsupervised learning: neural networks</b>		<b>07/23/2...</b>
Intro	0 hours	07/19/20...
Perceptron models	1.5 hours	07/19/20...
What is a neural network?	40 minutes	07/19/20...
Supervised neural networks	2.5 hours	07/20/2...
Unsupervised neural networks	2.5 hours	07/21/20...
Other terms in neural networks	1.5 hours	07/22/2...
Challenge: make a neural network	4 hours	07/23/2...
Capstone: Unsupervised learning		07/30/2...
Unsupervised learning capstone	21.5 hours	07/30/2...
Do your second mock interview		N/A
PM checkin: Learning How to Finish Strong		N/A
Other topics: Algorithms and data structures		08/02/2...
Intro	0 hours	07/31/20...
Algorithms and data structures	1.5 hours	07/31/20...
Sort in 60 minutes	1.5 hours	07/31/20...
Trees	1.5 hours	08/01/20...
Challenge: Project Euler	2.5 hours	08/02/2...
Other topics: Web scraping		08/03/2...
What is scraping?	40 minutes	08/02/2...
A Basic Scraper with scrapy	1.5 hours	08/02/2...
Don't break it!	1.5 hours	08/03/2...
APIs	1.5 hours	08/03/2...
Other topics: big data		08/05/2...

Intro	0 hours	08/04/2...
What is big data?	1.5 hours	08/04/2...
Hadoop and Big Data Storage	1 hour	08/04/2...
Distributed Computing and Spark	1 hour	08/05/2...
Other topics: Survey design		08/06/2...
Intro	0 hours	08/05/2...
Question design	1.5 hours	08/05/2...
Who and how?	1 hour	08/05/2...
Self reporting	1.5 hours	08/06/2...
Other topics: Advanced Experimentation		08/08/2...
Intro	0 hours	08/06/2...
Distribution comparison tests: parametric	1 hour	08/06/2...
Deep dive: Normality testing and multiple testin...	1 hour	08/06/2...
Distribution comparison tests: non-parametric	1 hour	08/07/2...
Challenge: What to use	2.5 hours	08/08/2...
Do your phone screen mock interview		N/A
Specialization topic		N/A
Capstone: final project		09/14/20...
Complete your final mock interview		N/A
Present your final capstone		N/A
SQL self-sufficiency exam		09/14/20...
Graduate		09/15/20...

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