**Springboard** Curriculum

Mentor

Community

(http:

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Study plan/dscareercommunity.springboard.com)

career.s

Chapter 1: Getting Started with Data Science Career Track with 1 unit, 16 minutes  Curriculum	
Unit 1.1 Preparing for the Course	16 Minutes
Curriculum Walkthrough	6 Minutes
Career support walkthrough	5 Minutes
Prepare for Your First Mentor Call	5 Minutes
Choose Your Course Pace	
Total for this chapter	~16 Minutes
Chapter 2: Introduction to Data Science with 2 units, 1 project, 2 hours 10 minutes	
Unit 2.1 Demystifying Data Science	40 Minutes
Watch "What is Data Science?" by Mike Gualteri	10 Minutes
What is Data Science?	30 Minutes
Unit 2.2 Start Thinking About Your Capstone Project	1.5 Hours
Review the Capstone Project Guidelines	30 Minutes
Submit 3 Ideas for Your First Capstone Project and Discu	1 Hour
Total for this chapter	~2 Hours 10 Minutes
Chapter 3: Your Job Search Strategy with 2 units, 1 project, 8 hours 40 minutes	
Unit 3.1 Fundamentals of Effective Job Hunting	3 Hours 10 Minutes
Anatomy of a Tech Company - Michelle Lai	2 Hours
The Job Search Funnel	10 Minutes
The Mindset of a Successful Job Seeker	10 Minutes
Land Any Job You Want - How Successful People Think Di	30 Minutes
Common Mistakos that Joh Coakers Make	40.14

Common Mistakes that Job Seekers Make

10 Minutes

1/11/2018	3. Your Job Searc	h Strategy	
Constructive Code Review OPTIONAL			<sup>1 Four</sup> St
Unit 4.4 Capstone Project proposal Curricu	Mentor	Community	1 Four (http:
Submit Your Capstone Project Proposal		://dscareercommunity.springboar	rd.com) our
Curriculum Milestone: Checkpoint 1	1 1		career.s
Currigulumthis chapter		~21 Hours	s 15 Minutes
Chapter 5: Data Wrangling with 3 units, 3 projects	, 53 hours 10 minutes		
Unit 5.1 Data Wrangling with Pandas			24 Hours
Pandas Foundations			6 Hours
Manipulating DataFrames with Pandas			6 Hours
Merging DataFrames with Pandas			6 Hours
Cleaning Data in Python			6 Hours
Unit 5.2 Working with Data in Files			15.5 Hours
Python Data Science Toolbox (Part 2)			6 Hours

ng with Data in Databases
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13 Hours 40 Minutes

Learn SQL with Mode Analytics

6 Hours

Analytics Training with Mode Analytics

Importing Data in Python (Part 1)

Importing Data in Python (Part 2)

4 Hours

5 Hours

3 Hours

1.5 Hours

Submit a Link to Your Mode Analytics Case Study

📴 Work on JSON Based Data Exercises and Submit on Your ...

10 Minutes

Overview of NoSQL databases

Total for this chapter

30 Minutes

Capstone Project 1 - Data Wrangling

3 Hours

Additional resources for data wrangling **OPTIONAL** 

~53 Hours 10 Minutes

Chapter 6: Effective Networking 1: Build your network

1 project, 2 hours 26 minutes

Total for this chapter		~21 Hours 45 Mine	utes
Capstone Project 1 - Inferential Statistics		6 H	ours
Unit 8.4 Apply Inferential Statistics		6 H	ours
Additional Resources OPTIONAL			
A/B Testing with Websites		10 Min	utes
The Beginner's Guide to A/B Testing		5 Min	utes
Unit 8.3 A/B Testing		15 Min	utes
Reduce Hospital Readmissions Using EDA		2 H	ours
Examine Racial Discrimination Using EDA		1 !	Hour
Human Body Temperature Using EDA		1.5 H	ours
Unit 8.2 Exploratory Data Analysis Projects		4.5 H	ours
Statistical Thinking in Python (Part 2)		6 H	ours
Statistical Thinking in Python (Part 1)		5 H	ours
Unit 8.1 Basic Statistical Inference		11 H	ours
Chapter 8: Inferential Statistics with 4 units, 4 projects	s, 21 hours	45 minutes	
Total for this chapter		~16 Ho	ours
Work on Your Data Story		10 H	ours
Unit 7.2 Apply Data Storytelling		10 H	ours
Effective Presentations		2 H	ours
<ul><li>Exploratory Data Analysis</li><li>Curriculum</li><li>Storytelling and Effective Communication</li></ul>			ours
Unit 7.1 Core Resources for Data Story  Exploratory Data Analysis	1		o <b>oare</b> ours
	Call	(http://dscareercommunity.springboard.com)	)
Curriculum Cha, to 7: Pat Nor t 10 7 Nitl 2 Inits, 1 project, 16 r	Mentor	Community	(h

Chapter 9: Capstone Project 1 - Milestone Report

1 project, 10 hours



Chapter 10: Effective Networking 2: Informational Interviews	;
Curriculum	

1 project, 8.5 hours

hapter 11: Machine Learning with 5 units, 4 projects, 45 hours	
Unit 11.1 Linear and Logistic Regression	20 Hours
Bias and Regression	3 Hours
Regression (continued)	3 Hours
Classification, kNN, Cross-validation, Dimensionality Redu	3 Hours
Supervised Learning with Scikit-Learn	6 Hours
Linear Regression Using Boston Housing Data Set	3 Hours
Heights and Weights Using Logistic Regression	2 Hours
Unit 11.2 SVM and Trees	6 Hours
SVM and Evaluation	3 Hours
Decision Trees and Random Forests	3 Hours
Elective: Ensemble Methods OPTIONAL	3 Hours
Unit 11.3 Bayesian Methods and Text Data	5 Hours
Bayes Theorem and Bayesian Methods	3 Hours
Sentiment Classification Using Scikit-Learn OPTIONAL	2 Hours
Predicting Movie Ratings from Reviews Using Naive Bayes	2 Hours
Unit 11.4 Best Practices	3 Hours
	3 Hours

Best Practices in Supervised Learning 11 Hours Unit 11.5 Introduction to Unsupervised Learning Community Mentor <sup>3</sup> Hours(http Curriculum (http://dscareercommunity.springboard.com) Call 6 Hours Career.s Unsupervised Learning in Python Customer Segmentation Using Clustering 2 Hours Curriculum Total for this chapter ~45 Hours Chapter 12: Capston Project 1 - Final Submission 1 project, 30 hours

Chapter 13: Find the Right Job Title and Companies with 2 units, 2 projects, 14 hours 50 minutes Unit 13.1 The Right Job Title 6 Hours 10 Minutes How to Find the Right Job Titles 10 Minutes Find 2-3 Job Titles 6 Hours Unit 13.2 The Right Companies 8 Hours 40 Minutes How to Find the Right Companies 10 Minutes Identify 40-50 Companies that You're Interested in 8 Hours Track Companies Using This Spreadsheet Template OPTIONAL Schedule a Call with Your Career Coach to Review Your J... 30 Minutes

~14 Hours 50 Minutes Total for this chapter

Chapter 14: Advanced Topics in Data Science with 3 units, 2 projects, 17 hours Unit 14.1 Social Network Analysis 13 Hours Network Analysis in Python (Part 1) 6 Hours Network Analysis in Python (Part 2) 6 Hours

Chapter 17: Get Interviews Using Your Network

With 1 unit, 2 projects, 7 hours 10 minutes

4 Hours 50 Minutes

The Muse - 31 Cover Letter Tips

30 Minutes

The Muse - 8 Cover Letter Examples

Create a Cover Letter for One Position

4 Hours

4 Hours

7 Hours

7 Hours

10 Minutes

1/11/2018

Chapter 18: Data Science at Scale 1 project, 12 hours Curriculum Call (http://dscareercommunity.springboard.com) career.s

## Curriculum

**Chapter 19: Capstone Project 2 - Final Submission** 2 projects, 30 hours

Chapter 20: Effective Interviewing for Data Scientists with 4 units, 3 projects, 28 hours 10 minutes	
Unit 20.1 The Take-Home Challenge	16.5 Hours
Quora - Data Science Take-home Challenges	20 Minutes
Example Take-Home Challenge: Ultimate Technologies Inc.	5 Minutes
Submit Your Solution to the Ultimate Inc. Data Science Ch	12 Hours
Example Take-Home Challenge: Relax Inc.	5 Minutes
Submit Your Solution to the Relax Inc. Data Science Chall	4 Hours
Unit 20.2 The Non-Technical Interview	5 Hours 10 Minutes
Unit 20.2 The Non-Technical Interview  Ramit Sethi - 3 tips to dominate your job interview	5 Hours 10 Minutes 20 Minutes
Ramit Sethi - 3 tips to dominate your job interview	20 Minutes
Ramit Sethi - 3 tips to dominate your job interview  Ramit Sethi - How to craft perfect answers to any intervie	20 Minutes 20 Minutes
Ramit Sethi - 3 tips to dominate your job interview  Ramit Sethi - How to craft perfect answers to any intervie  Create a Story Toolbox	20 Minutes 20 Minutes 4 Hours

1/11/2018	3. Your Job Search Strategy	
Unit 20.3 The Tech	hnical Interview	6.5 Hours
<b>Spring</b>	r ie with re or our MeHidisellikulti Fornito	nmunity  2 Hours (http: munity.springboard.com)  1 + 6areer.s
Genedule 10	out Thou work doding interview	T FOOR CCI.S
Schedule You Curriculum	our 1-Hour Mock Data Science Project Walkthr	1 Hour
Schedule Yo	our 1-Hour Mock General Data Science Intervie	1 Hour
Curriculum	illestone: Checkpoint 4	
Schedule a	Call with Your Career Coach to Plan the Rest o	30 Minutes
Unit 20.4 Additiona	al materials for interview review	
A Review of	f Common Algorithms from Computer Science OPTIONAL	
Introduction	n to SQL for Data Science <b>OPTIONAL</b>	6 Hours
Joining data	a in PostgreSQL <b>ортіонаL</b>	8 Hours
Total for th	nis chapter	~28 Hours 10 Minutes
Chapter 21: The Art o	of Negotiation 30 minutes	
Chapter 22: Conclusion	ion <sub>OPTIONAL</sub>	