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Study Plan

I plan to complete in: 6 months (16-27 hours/week)

Week	Units & time estimates	Collapse all
Week 1	**Unit 1: Program Overview** with 7 units, 1 project, 15 hours 37 minutes	—
	Sub-unit 1.1 **Course Outline**	20 Minutes
	The Data Science Method	
	Specialization Tracks	1 Hour
	Capstone Projects	4 Minutes
	Your Data Science Portfolio	
	Springboard School of Data's Job Guara...	✔
	Completion Criteria	20 Minutes ✔
	Sub-unit 1.2 **Mentorship**	20 Minutes
	Mentorship	3 Minutes ✔
	Mentor Calls	10 Minutes ✔
	Questions to Ask Your Mentor	7 Minutes ✔
	On-Demand Mentor Calls	
	Sub-unit 1.3 **Your Support System**	17 Minutes

Student Success Survey		
Career Support Walkthrough		3 Minutes ✔
Your Support System		4 Minutes ✔
Join Your Online Community		
Your Community Manager		
Course TA		
Your Extended Support Team		
Course Timeline and Tuition Guide		10 Minutes ✔
Sub-unit 1.4 Your First Coaching Call		35 Minutes
Your First Coaching Call	OPTIONAL	5 Minutes ✔
Career Strategy Plan	✔ Submitted OPTIONAL	30 Minutes ✔
Take a Quick Specialization Track Quiz	OPTIONAL	1 Minute
Sub-unit 1.5 Prework: Python		14 Hours 5 Minutes
Create a DataCamp Account		15 Minutes ✔
Intro to Python for Data Science		6 Hours ✔
Intermediate Python for Data Science		6 Hours ✔
Install your Data Science Python Stack		20 Minutes ✔
Jupyter Notebook		1 Hour ✔
Git and GitHub		30 Minutes ✔
UNIX Command Line	OPTIONAL	30 Minutes
Sub-unit 1.6 Prework: Statistics		

Data Distributions OPTIONAL		1.5 Hours
Displaying and Describing Quantitative D... OPTIONAL		1.5 Hours
Scatterplots OPTIONAL		1.5 Hours
Learning from Data OPTIONAL		1.5 Hours
Sub-unit 1.7 **Setting Some Ground Rules**		
Citing Code OPTIONAL		12 Minutes
Avoiding Plagiarism in Coding OPTIONAL		10 Minutes
How to Cite Datasets OPTIONAL		4 Minutes
A Guide to Citation Styles OPTIONAL		4 Minutes
Clarifying Plagiarism OPTIONAL		10 Minutes
Further Writing and Research Resources OPTIONAL		4 Minutes
Total for this unit		**~15 Hours 37 Minutes**
Unit 2: What is Data Science?	with 3 units, 1 hour 17 minutes	—
Sub-unit 2.1 **Demystifying Data Science**		1 Hour 7 Minutes
What Do You Need to Become a Data Sc...		15 Minutes ✔
Data Science In 5 Minutes		7 Minutes ✔
What is Data Science?		45 Minutes ✔
Real Talk with a Data Scientist at Instagr... OPTIONAL		13 Minutes
Sub-unit 2.2 **Data Science Method Overview**		10 Minutes
Overview of the Data Science Method		10 Minutes ✔

Sub-unit 2.3 **Wrap Up**

Recap OPTIONAL

Total for this unit **~1 Hour 17 Minutes**

Unit 3: Problem Identification with 4 units, 2 projects, 6 hours 50 minutes

Sub-unit 3.1 **Intro to Problem Identification** 1 Hour 13 Minutes

- The Data Science Method — Problem Id... 10 Minutes ✔
- Why Care about Problem Statements? 3 Minutes ✔
- Problem Solving Fundamentals 30 Minutes ✔
- Building SMART Problem Statements to D... 20 Minutes ✔
- Problem Definition Techniques 10 Minutes ✔

Sub-unit 3.2 **Case Study One - Monalco Mining** 3 Hours 10 Minutes

- Problem Statement Worksheet Template 10 Minutes ✔
- Problem Statement Worksheet Exemplar 30 Minutes ✔
- Read the Monalco Mining Case Study O... 30 Minutes ✔
- **Create a Problem Statement for Monalco Mining** ✔ Submitted 2 Hours ✔

Sub-unit 3.3 **Case Study Two - Nordic Sensing Co.** 2 Hours 20 Minutes

- Read Nordic Sensing Co. Case Study Ov... 20 Minutes ✔
- **Create a Problem Statement for Nordic Sensing Co.** ✔ Submitted 2 Hours ✔

Sub-unit 3.4 **Wrap Up** 7 Minutes

- Problem Identification 7 Minutes ✔
- Recap

Total for this unit **~6 Hours 50 Minutes**

Week 2

Unit 4: The Python Data Science Stack with 4 units, 2 projects, 30 hours 55 minutes —

Sub-unit 4.1 **Python for Data Science** 11 Hours 20 Minutes

- Data Types for Data Science 6 Hours ✔
- Python Data Science Toolbox 5 Hours ✔
- Python Programming Assessment 20 Minutes ✔

Sub-unit 4.2 **The Power of pandas** 12 Hours 20 Minutes

- Data Manipulation with pandas 6 Hours ✔
- Joining Data with Pandas 6 Hours ✔
- Data Manipulation with Python Assessm... 20 Minutes ✔

Sub-unit 4.3 **Case Study - London Calling!** 7 Hours 15 Minutes

- Self Reliance with StackOverflow 15 Minutes ✔
- **Case Study - London Housing** ✔ Submitted 6 Hours ✔
- Summarize Your Findings 1 Hour

Sub-unit 4.4 **Wrap Up**

Week 3

- Recap

Total for this unit **~30 Hours 55 Minutes**

Unit 5: Creating Your Job Search Strategy with 2 units, 2 hours 45 minutes —

Sub-unit 5.1 **Fundamentals of Effective Job Hunting** 2 Hours 45 Minutes

- Anatomy of a Tech Company OPTIONAL 1.5 Hours ✔

The Job Search Funnel	OPTIONAL		10 Minutes ✔
The Mindset of a Successful Job Seeker	OPTIONAL		10 Minutes ✔
Land Any Job You Want - How Successful Peop...	OPTIONAL		45 Minutes ✔
Common Mistakes that Job Seekers Ma...	OPTIONAL		10 Minutes ✔
Sub-unit 5.2 Wrap Up			
Recap	OPTIONAL		
Total for this unit			**~2 Hours 45 Minutes**

Unit 6: Applying the Data Science Method	with 8 units, 7 projects, 42 hours 36 minutes		—
Sub-unit 6.1 Step One: Problem Identification			2 Hours
Guided Capstone - Step One	✔ Submitted		2 Hours ✔
Sub-unit 6.2 Step Two: Data Wrangling			8 Hours 26 Minutes
Overview of Data Wrangling			10 Minutes ✔
Data Wrangling with pandas Cheat Sheet			4 Minutes ✔
Github Essentials			12 Minutes ✔
Guided Capstone - Step Two	✔ Submitted		8 Hours ✔
Sub-unit 6.3 Step Three: Exploratory Data Analysis			11 Hours 14 Minutes
Overview of Exploratory Data Analysis			9 Minutes ✔
EDA Cheat Sheet			5 Minutes ✔
Exploratory Data Analysis in Python			3 Hours ✔
Guided Capstone - Step Three			8 Hours

Week 4

Sub-unit 6.4	**Step Four: Pre-processing and Training Data Development**	8 Hours 13 Minutes
	Overview of Pre-processing and Training Dat...	8 Minutes ✔
	Overview of Scale Standardization	5 Minutes ✔
	Guided Capstone - Step Four	8 Hours
Sub-unit 6.5	**Step Five: Modeling**	8 Hours 8 Minutes
	Overview of Modeling	8 Minutes
	Guided Capstone - Step Five	8 Hours
Sub-unit 6.6	**Step Six: Documentation**	2 Hours 35 Minutes
	Overview of Project Documentation	8 Minutes
	The Secret Structure of Great Talks	27 Minutes
	Guided Capstone - Step Six	2 Hours
Sub-unit 6.7	**Presenting Your Work**	2 Hours
	Guided Capstone - Create a Slide Deck for the Executive Team	2 Hours
Sub-unit 6.8	**Wrap Up**	
	Recap	
	Total for this unit	**~42 Hours 36 Minutes**

Unit 7: Data Wrangling	with 7 units, 4 projects, 50 hours 55 minutes	—
Sub-unit 7.1	**Capstone Two: Project Ideas & Proposal**	8 Hours
	Capstone Two - Project Ideas	4 Hours
	Capstone Two - Project Proposal	4 Hours

Week 5

Sub-unit 7.2 **Data Collection**		12 Hours 50 Minutes
Importing Data in Python, Part 1		5 Hours
Importing Data in Python, Part 2		3 Hours
Introduction to APIs		20 Minutes
Getting Started With Python Requests		30 Minutes
API Mini-Project		4 Hours
Web Scraping in Python Using Scrapy	OPTIONAL	1 Hour
Sub-unit 7.3 **Data Organization**		6 Hours 20 Minutes
Cookie Cutter Data Science		20 Minutes
Code Management with Git		6 Hours
Sub-unit 7.4 **Data Definitions**		2 Hours 45 Minutes
pandas Profiling Module Overivew		45 Minutes
NASA Meteorite Data Exercise		2 Hours
Sub-unit 7.5 **Data Cleaning**		13 Hours
Cleaning Data in Python		6 Hours
Python Data Science Toolbox, Part 2		6 Hours
Handling Text Data		1 Hour
Sub-unit 7.6 **Capstone Two: Data Wrangling**		8 Hours
Capstone Two - Data Wrangling		8 Hours
Sub-unit 7.7 **Wrap up**		
Data Cleaning Challenge	OPTIONAL	2 Hours

Week 6

Recap

Total for this unit **~50 Hours 55 Minutes**

Unit 8: SQL & Databases with 4 units, 1 project, 29 hours 17 minutes

Sub-unit 8.1 **SQL & Databases Overview** 2 Hours 13 Minutes

Introduction to SQL and Databases		45 Minutes
Introduction to SQL and Databases		20 Minutes ✔
Introduction to Entity-Relationship Diagra...	OPTIONAL	4 Minutes
Database Trends		30 Minutes
Introduction to Relational Databases		8 Minutes
Set Theory: The Method to Database Ma...		30 Minutes

Sub-unit 8.2 **SQL Skills for Data Science** 19 Hours

Introduction to SQL for Data Science		6 Hours
Joining Data in SQL		7 Hours
Intermediate SQL		6 Hours

Sub-unit 8.3 **SQL Case Study - Country Club** 7 Hours 34 Minutes

Week 7

Working with Relational Databases in Py...		1.5 Hours
Introduction to PHP MyAdmin		4 Minutes
Case Study - Country Club		6 Hours

Sub-unit 8.4 **Wrap Up** 30 Minutes

Interview Questions		30 Minutes
HackerRank SQL Challenge	OPTIONAL	2 Hours

Recap

Total for this unit **~29 Hours 17 Minutes**

Unit 9: Your Elevator Pitch and LinkedIn Profile with 3 units, 2 projects, 7 hours 2 minutes

Sub-unit 9.1 **Elevator Pitch** 1 Hour 2 Minutes

The Perfect Elevator Pitch To Land A Job OPTIONAL 7 Minutes

5 Minutes to a Great Elevator Pitch for Job Se... OPTIONAL 10 Minutes

Create your Personal Pitch OPTIONAL 45 Minutes

Sub-unit 9.2 **Create (or Update) Your LinkedIn Profile** 6 Hours

Get a LinkedIn Job Seeker Premium Acco... OPTIONAL 30 Minutes

The 31 Best LinkedIn Profile Tips for Job See... OPTIONAL 20 Minutes

How to Write a LinkedIn Summary (About Secti... OPTIONAL 15 Minutes

Five Examples of Great LinkedIn Summar... OPTIONAL 20 Minutes

Update Your LinkedIn Profile OPTIONAL 5 Hours

Schedule an Elevator Pitch and LinkedIn Group ... OPTIONAL 5 Minutes

Sub-unit 9.3 **Wrap Up**

Recap OPTIONAL

Total for this unit **~7 Hours 2 Minutes**

Unit 10: Statistics for Exploratory Data Analysis with 7 units, 29 hours 55 minutes

Sub-unit 10.1 **Learning from Data** 6 Hours 20 Minutes

Accessing The Art of Statistics

Week 8

Chapter 3: Why Are We Looking at Data ...	2.5 Hours
Why are We Looking at Data	15 Minutes
Chapter 3: Take-away Notes	10 Minutes
Chapter 4: What Causes What?	3 Hours
What Causes What?	15 Minutes
Chapter 4: Take-away Notes	10 Minutes
Simpson's Paradox OPTIONAL	20 Minutes
Sub-unit 10.2 Models & Algorithms	6 Hours 20 Minutes
Chapter 5: Modelling Relationships Usin...	2 Hours
Seeing Theory - Regression Exercises	30 Minutes
Modelling Relationships Using Regression	15 Minutes
Chapter 5: Take-away Notes	10 Minutes
Chapter 6: Algorithms, Analytics, and Pre...	3 Hours
Algorithms, Analytics, and Prediction	15 Minutes
Chapter 6: Take-away Notes	10 Minutes
Sub-unit 10.3 Assessing Uncertainty through Resampling	2 Hours 40 Minutes
Chapter 7: How Sure Can We Be About Wh...	2 Hours
Chapter 7: Take-away Notes	10 Minutes
Seeing Theory: Frequentist Inference	30 Minutes
Sub-unit 10.4 Probability Theory	5 Hours 50 Minutes
Chapter 8: Probability - The Language of Uncert...	2 Hours

Chapter 8: Take-away Notes	10 Minutes
Seeing Theory: Basic Probability and Compo…	30 Minutes
Chapter 9: Putting Probability & Statistic…	2.5 Hours
Chapter 9: Take-away Notes	10 Minutes
Seeing Theory: Probability Distributions	30 Minutes

Sub-unit 10.5 **Hypothesis Testing** 2 Hours 55 Minutes

Chapter 10: Answering Questions & Claimi…	2.5 Hours
Answering Questions & Claiming Discov…	15 Minutes
Chapter 10: Take-away Notes	10 Minutes

Sub-unit 10.6 **Advanced Statistics** 5 Hours 50 Minutes

Chapter 11: Learning from Experience the …	2.5 Hours
Seeing Theory: Bayesian Inference	30 Minutes
Chapter 11: Take-away Notes	10 Minutes
Chapter 12: How Things Go Wrong & Chapter 1…	2.5 Hours
Chapters 12 and 13: Take-away Notes	10 Minutes
Accessing LinkedIn Learning	

Sub-unit 10.7 **Wrap Up**

Recap	

Total for this unit **~29 Hours 55 Minutes**

Unit 11: Python Statistics in EDA with 6 units, 5 projects, 42 hours —

Sub-unit 11.1 **Statistical Inference in Python** 11 Hours

Week 9

Statistical Thinking in Python, Part 1		4 Hours
Intro to Statistical Inference and Statistical Mo...		3 Hours
Case Study - Frequentist Inference: A and B		4 Hours
Sub-unit 11.2 **Data Visualization in Python**		8 Hours
Data Visualization with Matplotlib		4 Hours
Data Visualization with Seaborn		4 Hours
Sub-unit 11.3 **Hypothesis Testing in Python**		9 Hours
Statistical Thinking in Python, Part 2		5 Hours
Case Study - Integrating Apps		4 Hours
Sub-unit 11.4 **Statistical Modeling in Python**		4 Hours
Case Study - Linear Regression		4 Hours
Case Study - Boston Housing	OPTIONAL	6 Hours
Sub-unit 11.5 **Capstone Two: EDA**		10 Hours
Exploratory Data Analysis		10 Hours
Sub-unit 11.6 **Wrap Up**		
HackerRank Statistics Challenge	OPTIONAL	2 Hours
Recap		
Total for this unit		**~42 Hours**

Week 10

Unit 12: Effective Networking	with 4 units, 1 project, 4 hours 17 minutes	—
Sub-unit 12.1 **Relationship Building**		51 Minutes

Reach Out, Stay in Touch and Deepen Your Con...	OPTIONAL	40 Minutes
15 Power Tips for Using Your Social Network To...	OPTIONAL	11 Minutes

Sub-unit 12.2 **How to Use Lunchclub, Meetups, and Conferences to Build Your Network** 25 Minutes

How to Use Lunchclub to Build Your Net...		
How to Use Meetups to Build Your Netw...	OPTIONAL	10 Minutes
The Best Data Science Conferences	OPTIONAL	15 Minutes

Sub-unit 12.3 **Emailing and Etiquette** 3 Hours 1 Minute

The Best Email Scripts for Cold Emailing	OPTIONAL	10 Minutes
Best Scripts for Cold LinkedIn Outreach	OPTIONAL	15 Minutes
Springboard's Networking Etiquette Guide	OPTIONAL	15 Minutes
Imposter Syndrome 1	OPTIONAL	6 Minutes
Imposter Syndrome 2	OPTIONAL	10 Minutes
Attend a Data Science Meetup	OPTIONAL	2 Hours
Schedule a Group Career Coaching Call about N...	OPTIONAL	5 Minutes

Sub-unit 12.4 **Wrap Up**

Recap	OPTIONAL	

Total for this unit **~4 Hours 17 Minutes**

Unit 13: Machine Learning Overview with 3 units, 3 hours 49 minutes

Sub-unit 13.1 **Introduction to Machine Learning** 2 Hours 28 Minutes

What is Machine Learning?		20 Minutes

	Supervised Learning vs Unsupervised Le...	10 Minutes
	Batch Learning vs Online Learning	6 Minutes
	Online Learning	12 Minutes
	Instance-Based vs Model-Based Learning	10 Minutes
	Machine Learning 101	1.5 Hours
Sub-unit 13.2	**Data Scientists and Machine Learning**	1 Hour 6 Minutes
	Dealing with Lack of Data	12 Minutes
	Best Practices for Feature Engineering	20 Minutes
	Overfitting and Underfitting	20 Minutes
	The Rules of Machine Learning	14 Minutes
Sub-unit 13.3	**Wrap Up**	15 Minutes
	Machine Learning Overview	15 Minutes
	Recap	
Week 11	**Total for this unit**	**~3 Hours 49 Minutes**

Unit 14: Supervised Learning	with 8 units, 4 projects, 50 hours 43 minutes	—
Sub-unit 14.1	**Overview of Supervised Learning**	9.5 Hours
	Choosing a Machine Learning Classifier	10 Minutes
	Supervised Learning with Scikit-Learn	6 Hours
	Getting to Grips with Imbalanced Data	20 Minutes
	Classification, kNN, Cross-validation, Dimension...	1 Hour 15 Minutes

Classification, kNN, Cross-validation, Dimension...	15 Minutes
Classification, kNN, Cross-validation, Dimension...	1 Hour 15 Minutes
Classification, kNN, Cross-validation, Dimension...	15 Minutes
MIT Introduction to Machine Learning OPTIONAL	2 Hours
Sub-unit 14.2 Logistic Regression	10 Hours 35 Minutes
Bias and Regression, Part 1	1 Hour
Bias and Regression, Pt 1	15 Minutes
Bias and Regression, Part 2	30 Minutes
Bias and Regression, Pt 2	15 Minutes
Bias and Regression, Part 3	1 Hour
Bias and Regression, Pt 3	15 Minutes
Regression, Part 1	1 Hour 20 Minutes
Regression, Pt 1	15 Minutes
Regression, Part 2	1.5 Hours
Regression, Pt 2	15 Minutes
Case Study - Logistic Regression	4 Hours
Sub-unit 14.3 Decision Trees	8 Hours
Decision Trees, Part 1	1.5 Hours
Decision Trees, Pt 1	15 Minutes
Decision Trees, Part 2	2 Hours

Week 12	Decision Trees, Pt 2	15 Minutes
	Case Study - RR Diner Coffee	4 Hours
	Sub-unit 14.4 **Ensemble Methods and Random Forest**	8 Hours
	Using Random Forests in Python	45 Minutes
	Ensemble Methods	3 Hours
	Ensemble Methods Quiz	15 Minutes
	Case Study - Random Forest	4 Hours
	Sub-unit 14.5 **Ensemble Methods: Gradient Boosting and AdaBoost**	5 Hours 10 Minutes
	Random Forest vs AdaBoost vs. Gradien...	20 Minutes
	Gradient Boosting	2 Hours
	Extreme Gradient Boosting with XGBoost OPTIONAL	4 Hours
	Develop your first XGBoost model with Scikit ... OPTIONAL	15 Minutes
	Gradient Boosting from Scratch	50 Minutes
	Case Study - Gradient Boosting	2 Hours
	Sub-unit 14.6 **Time Series Analysis and Forecasting**	5 Hours 40 Minutes
	Time Series Analysis	1 Hour
	Data Transformation for Forecasting	30 Minutes
	Seasonal Arima with Python	10 Minutes
	Introduction to Time Series Analysis in P...	4 Hours
	Sub-unit 14.7 **SVM & Kernels**	3 Hours 48 Minutes
	Overview of SVM	30 Minutes

	SVM and Evaluation		3 Hours
	SVM with Polynomial Kernel Visualization		3 Minutes
	Linear Discriminant Analysis		15 Minutes
Sub-unit 14.8	**Wrap Up**		
	HackerRank Supervised Learning challen...	OPTIONAL	2 Hours
	Recap		
	Total for this unit		**~50 Hours 43 Minutes**

Unit 15: Unsupervised Learning — with 8 units, 3 projects, 24 hours 45 minutes

Sub-unit 15.1	**Overview of Unsupervised Learning**	1 Hour 20 Minutes
	Clustering Harvard Lecture, Part 1	25 Minutes
	Clustering, Pt 1	15 Minutes
	An Introduction to Clustering Algorithms...	20 Minutes
	A Tutorial on Clustering Algorithms, Part 1	20 Minutes
Sub-unit 15.2	**Euclidean & Manhattan Distances**	2 Hours 15 Minutes
	Euclidean & Manhattan Distances Explai...	15 Minutes
	Case Study - Calculating Distances	2 Hours
Sub-unit 15.3	**k-means Clustering**	3 Hours 45 Minutes
	Clustering Harvard Lecture, Part 2	25 Minutes
	Clustering, Pt 2	15 Minutes
	Unsupervised Learning in Python, Part 1	1.5 Hours
	A Tutorial on Clustering Algorithms, Part 2	1 Hour

Week 13

Clustering Harvard Lecture, Part 3		20 Minutes
Clustering, Pt 3		15 Minutes
Jake VanderPlas on k-means	OPTIONAL	1.5 Hours
Sub-unit 15.4 Agglomerative Hierarchical Clustering		7 Hours 25 Minutes
Clustering Harvard Lecture, Part 4		40 Minutes
Clustering, Pt 4		15 Minutes
Unsupervised Learning in Python, Part 2		4 Hours
A Tutorial on Clustering Algorithms, Part 3		1.5 Hours
Different Clustering Methods, and When ...		1 Hour
Sub-unit 15.5 Cosine Similarity		2 Hours 45 Minutes
Cosine Similarity - Understand the Math		45 Minutes
Case Study - Cosine Similarity		2 Hours
Sub-unit 15.6 Principal Components Analysis		7 Hours 15 Minutes
A One-Stop Shop for Principal Compone...		1.5 Hours
PCA Explained Visually		45 Minutes
Case Study - Customer Segmentation using Clustering: K-means		5 Hours
Sub-unit 15.7 Singular Value Decomposition		
Singular Value Decomposition (SVD) & Principal...	OPTIONAL	30 Minutes
How are Principal Component Analysis and Sin...	OPTIONAL	40 Minutes
Sub-unit 15.8 Wrap Up		
Bond Clustering Hackerrank challenge	OPTIONAL	2 Hours

Recap

Total for this unit **~24 Hours 45 Minutes**

Unit 16: Feature Engineering with 4 units, 1 project, 15 hours 15 minutes

Sub-unit 16.1 **Categorical, Text, & Image Features** 4 Hours 45 Minutes

- Handling Categorical Data for Machine L... 30 Minutes
- Feature Engineering for Machine Learning in... 1.5 Hours
- Text Mining in Python 30 Minutes
- Feature Engineering for Machine Learnin... 1.5 Hours
- The Histogram of Gradients Method for Feature... 45 Minutes
- Image Processing in Python OPTIONAL 1.5 Hours

Sub-unit 16.2 **Feature Engineering Implementation** 7.5 Hours

Week 14

- Feature Engineering for Machine Learning in... 3 Hours
- Dealing with Missing Data in Python: Value Imp... OPTIONAL 2 Hours
- Deep Feature Synthesis: How Automated Featur... 15 Minutes
- Automated Feature Engineering 15 Minutes
- Automated Feature Engineering with Fe... 4 Hours

Sub-unit 16.3 **Capstone Two: Pre-processing & Training Data Development** 3 Hours

- Capstone Two - Pre-processing and Training Data Development 3 Hours

Sub-unit 16.4 **Wrap Up**

- Text Manipulation in Python OPTIONAL 2 Hours

Recap

Total for this unit **~15 Hours 15 Minutes**

Unit 17: Informational Interviews with 2 units, 1 project, 7 hours 12 minutes

Sub-unit 17.1 **Informational Interviews** 7 Hours 12 Minutes

- Informational Interviewing with Steve Dal... OPTIONAL 15 Minutes
- How to Be Awesome at Informational Intervi... OPTIONAL 15 Minutes
- Building Your Professional Relationships OPTIONAL 30 Minutes
- 7 Questions You Can't Leave an Informational In... OPTIONAL 7 Minutes
- Conduct Informational Interviews OPTIONAL 6 Hours
- Schedule a Check-In Call with your Career C... OPTIONAL 5 Minutes

Sub-unit 17.2 **Wrap Up**

- Recap OPTIONAL

Total for this unit **~7 Hours 12 Minutes**

Unit 18: Machine Learning Applications with 4 units, 3 projects, 27 hours 3 minutes

Sub-unit 18.1 **Model Evaulation** 2 Hours 10 Minutes

- Machine Learning Model Metrics 50 Minutes
- Regression Evaluation Metrics 15 Minutes
- Classification Evaluation Metrics 15 Minutes
- Machine Learning Model Metrics Quick ... 10 Minutes
- Model Evaluation Metrics 40 Minutes

Sub-unit 18.2 **Model Optimization**		9 Hours 53 Minutes
Parameters Versus Hyperparameters		15 Minutes
Hyperparameter Tuning		1 Hour
Grid Search and Random Search		8 Minutes
Grid Search in KNN		4 Hours
Bayesian Optimization		30 Minutes
Bayesian Optimization		4 Hours
Sub-unit 18.3 **Capstone Two: Modeling**		15 Hours
Capstone Two - Modeling		15 Hours
Sub-unit 18.4 **Wrap Up**		
Recap		
Total for this unit		**~27 Hours 3 Minutes**

Unit 19: Find the Right Job Title and Companies	with 4 units, 4 projects, 18 hours 42 minutes	—
Sub-unit 19.1 **The Right Job Titles**		6 Hours 10 Minutes
How to Find the Right Job Titles	OPTIONAL	10 Minutes
Find 2-3 Job Titles	OPTIONAL	6 Hours
Sub-unit 19.2 **The Right Companies**		8 Hours 10 Minutes
How to Find the Right Companies	OPTIONAL	10 Minutes
Identify 40-50 Dream Companies	OPTIONAL	8 Hours
Sub-unit 19.3 **Choose Your Track**		4 Hours 22 Minutes

Week 15

Overview of Tracks OPTIONAL		7 Minutes
Which Track is Right for You? OPTIONAL		10 Minutes
Update your Career Strategy Plan OPTIONAL		15 Minutes
Schedule a Call with your Career Coach to Revie... OPTIONAL		5 Minutes
Attend a Networking Event or Informational Interview OPTIONAL		4 Hours
Sub-unit 19.4 **Wrap Up**		
Recap OPTIONAL		
Total for this unit		**~18 Hours 42 Minutes**

Unit 20: Data Storytelling with 5 units, 3 projects, 36 hours 23 minutes

Sub-unit 20.1 **Data Storytelling 101**		4 Hours 50 Minutes
Choose Your Track		
The History of Data Storytelling		15 Minutes
Storytelling through Exploratory Data An...		2 Hours
Show Me The Data!		15 Minutes
Storytelling and Effective Communication		2 Hours
The STAR Method		20 Minutes
Storytelling and Effective Communication Exe... OPTIONAL		2 Hours
Sub-unit 20.2 **Presenting Your Work**		2 Hours 3 Minutes
Creating an Engaging Story		1 Hour
Avoiding Death By PowerPoint		30 Minutes

Week 16

Three Types of Presentations: Executive, Techni...	10 Minutes
Presenting to an Executive	8 Minutes
Presenting to Technical Audiences	10 Minutes
Presenting to Non-technical Audiences	5 Minutes
Sub-unit 20.3 **Apply Your Storytelling Skills**	4.5 Hours
Choosing the Right Visualizations for Yo...	30 Minutes
Craft a Story from a Dataset	4 Hours
Sub-unit 20.4 **Capstone Two: Documentation**	25 Hours
Capstone Two - Final Project Report	15 Hours
Capstone Two - Final Presentation	10 Hours
Sub-unit 20.5 **Wrap Up**	
Recap	
Total for this unit	**~36 Hours 23 Minutes**

Unit 21: Specializations 188 hours 54 minutes

Week 17

Week 18

Week 19

Week 20

Week 21

Week 22

Week 23

Week 24