Who can benefit from this course:

- Anyone interested in learning more about R programming, machine learning, and data science.
- This course is suited for people who have never programmed as well as people already familiar with programming.
- Anyone interested in the rapidly expanding world of data science.

Course structure R course

Morning

	Week 1			
Morning	Introduction to DSLA course			
	Instructor Lead Case: MTcars (Excel)			
	Week 2			
Morning	Instructor Lead Case: Simple Classification (Rstudio local)			
Afternoon	Intro to Group Case: Classification (Classification Case)			
w	Week 3			
Morning	Presentation of Group Case: Classification			
Afternoon	Intro to Instructor Lead Case: Mnist digit Classification (Rstudio AWS/Server) (Image Processing)			
	Week 4			
Morning	Data Science Theory - Concepts			
Afternoon	Intro to Group Case: Sentiment Analysis (NLP, Using APIs, Exploratory Analysis)			
	Week 5			
Morning	Presentation of Group Case: Sentiment Analysis			
Afternoon	Instructor Lead Case: Big Data Spark- Predictive Analytics (Machine Learning)			
	Week 6			
Morning	Instructor Lead Case: Big Data Spark- Predictive Analytics (shiny)			
Afternoon	Intro to Group Case: Big Data Demand Analysis and Predictive Analytics (Hadoop, Hive, Spark) HOME ABOUT US COURSES BLOG SOCIAL GROUPS HELP CONTACT US Week JAGING COURSE RELATED	⑥ F	ROHIT PAD	
	resentation of Group Case: Demand Analysis and Predictive Analytics (GUI)			
Afternoon	Intro to Elective Group Case: Dynamic Pricing/ Default Predictions/ Recommendation Systems			
	Week 8			
Morning	Interview Questions/Concepts			
Afternoon	Presentation of Elective Group Case: Dynamic Pricing/ Default Predictions/ Recommendation Systems			
A	Week 9			
Morning	Individual Case			
Afternoon	Individual Case			

COURSE CURRICULUM Pre-Week1 Preparation 0 Install R Studio 00:00:00 0 00:00:00 Programming Assignment: Complete Git/Github Tutorial 0 00:00:00 Reading Assignment: Introduction to Statistical Learning - Chapter 1 **①** Optional Reading Assignment: Introduction to Statistical Learning - Chapter 2 **②** 00:00:00 Week 1 00:00:00 Philosophy of course and our vision 00:00:00 Student Introductions

Week 10

Individual Case Presentation

Afternoon Individual Case Presentation

0	Course Outline Discussion	0	00:00:00
	Lunch Break	•	00:00:00
	Introduction to DSLA Website and tools	•	00:00:00
	Data Science Process	•	00:00:00
	Data Science using Excel	•	00:00:00
0	Introduction to R platforms	0	00:00:00
Hon	nework Assignments		_
0	Programming Assignment: Swirl - R Programming	0	00:00:00
0	Reading Assignment: Introduction to Statistical Learning – Chapter 3 Linear Regression	0	00:00:00
0	Reading Assignment: Introduction to Statistical Learning – Chapter 4 Classification	0	00:00:00
	Writing Assignment: Create Aspirational Resume	0	00:00:00
	Case Submission: Data Science Problems in Real Life	•	00:00:00
Week 2			_
	Introduction to Classification Methods	•	00:00:00
	Introduction to Tree Based Methods	0	00:00:00
	Introduction to Teams	0	00:00:00
Θ	Introduction to Instructor Case: Leaf Classification	0	00:00:00
	Lunch Break	0	00:00:00
	Instructor Case: Discussion	0	00:00:00
0	Instructor Case: Code Demonstration	•	00:00:00
0	Introduction to Student Case: Mushroom Classification	0	00:00:00
	Group Discussion: Best Practices for Solving Case	0	00:00:00
Hon	nework Assignments		_
0	Programming Assignment: Swirl Course – Regression Models	•	00:00:00
	Programming Assignment: Swirl Course – Getting and Cleaning Data	0	00:00:00
	Reading Assignment: Introduction to Statistical Learning – Chapter 8	0	00:00:00

Case Submission: Code on Github for Mushroom Classification	0	00:00:00
Presentation Assignment: Presentation on Mushroom Classification Case	0	00:00:00
Extra Credit Assignment: Contribution to discussions on DSLA website	0	00:00:00
eek 3		
Student Case Presentation: Mushroom Classification	0	00:00:00
Introduction to Cloud Computing - AWS	0	00:00:00
Introduction to Deep Learning	0	00:00:00
Lunch Break	0	00:00:00
Introduction to Instructor Case: MNIST Digit Classification	0	00:00:00
Instructor Case Discussion: MNIST Digit Classification	0	00:00:00
Instructor Case: Code Demonstration	0	00:00:00
omework Assignments		_
Programming Assignment – Swirl: Exploratory Data Analysis	0	00:00:00
Programming Assignment: Swirl – Statistical Inference	0	00:00:00
Technical Assignment: Install and Setup RStudio on AWS	0	00:00:00
Reading Assignment: Introduction to Statistical Learning – Chapter 5	0	00:00:00
Reading Assignment: Introduction to Statistical Learning – Chapter 6	0	00:00:00
Optional Reading Assignment: Read Any Book	0	00:00:00
Writing Assignment: Written Report on Mushroom Classification Case	0	00:00:00
Case Submission: Code on Github for Mushroom Classification	0	00:00:00
eek 4		_
Introduction to Time Series Forecasting	0	00:00:00
Group Discussion: Bias vs Variance	0	00:00:00
Group Discussion: Bagging vs Boosting	0	00:00:00
Lunch Break	0	00:00:00
Introduction to Natural Language Processing	•	00:00:00

	Introduction to Student Case: Twitter Sentiment Analysis	•	00:00:00
	Group Discussion: Best Practices for Solving Case	0	00:00:00
Hom	nework Assignments		_
0	Reading Assignment: Read Any Book	0	00:00:00
Θ	Programming Assignment: Shiny Tutorial	0	00:00:00
	Code Submission: Code on Github for Sentiment Analysis	0	00:00:00
	Writing Assignment: Written Technical Report on Sentiment Analysis	0	00:00:00
	Presentation Assignment : Presentation on Sentiment Analysis	0	00:00:00
Wee	ek 5		_
	Student Case Presentations: Sentiment Analysis	0	00:00:00
	Introduction to SQL and Databases	0	00:00:00
	Lunch Break	0	00:00:00
	Introduction to Big Data	0	00:00:00
	Introduction to Spark in R	0	00:00:00
	Introduction to Instructor Case: Big Data Flights	0	00:00:00
Hom	nework Assignments		_
Θ	Reading Assignment: Read Any Book	0	00:00:00
	Programming Assignment: Build a Creative Simple Shiny App	0	00:00:00
	Technical Assignment: Setup R Spark Cluster on AWS	0	00:00:00
	Writing Assignment: Individual Case Selection	0	00:00:00
Nee	ek 6		_
	Instructor Case Demonstration: Flights (Machine Learning)	0	00:00:00
	Introduction to Shiny	0	00:00:00
	Student Presentations: Demo Shiny App	0	00:00:00
	Instructor Case Demonstration: Flights (Shiny App)	0	00:00:00
	Lunch Break	0	00:00:00

Student Presentations: Individual Case Selection	0	00:00:00
Group Discussion: Interview Questions	0	00:00:00
Introduction to Student Case: Bike Sharing Prediction	0	00:00:00
Group Discussion: Best Practices for Solving Case	0	00:00:00
Homework Assignments		_
Reading Assignment: Read Any Book	0	00:00:00
Code Submission: Code on Github for Bike Sharing	9	00:00:00
Writing Assignment: Technical Report on Bike Sharing Case	0	00:00:00
Presentation Assignment: Presentation on Bike Sharing Case	0	00:00:00
Programming Assignment: Shiny Dashboard/App on Bike Sharing	0	00:00:00
Week 7		_
Student Presentations: Bike Sharing	9	00:00:00
Introduction to Unsupervised Learning	9	00:00:00
Student Update on Individual Case	9	00:00:00
Introduction to Loan Default Analysis Case	0	00:00:00
Lunch Break	0	00:00:00
Student Demos: Bike Sharing App/Dashboard	0	00:00:00
Introduction to Market Basket Analysis Case	0	00:00:00
Introduction to IoT Insurance Pricing Case	0	00:00:00
Group Discussion: Best Practices for Solving Case	0	00:00:00
Homework Assignments		_
Reading Assignment: Read Any Book	0	00:00:00
Code Submission: Code on Github for Group Case	0	00:00:00
Writing Assignment: Technical Report on Group Case	0	00:00:00
Presentation Assignment: Business Presentation on Group Case	0	00:00:00
Programming Assignment: Shiny App on Group Case	•	00:00:00

Week 8

Introduction to Model Selection and Optimization	0	00:00:00
Student Presentations: Group Case (Business)	0	00:00:00
Group Discussion: Interview Questions	0	00:00:00
Lunch Break	0	00:00:00
Student Presentations: Group Case (Technical)	0	00:00:00
Student Demonstration: Group Case App	0	00:00:00
Introduction to Deep Learning II	0	00:00:00

Homework Assignment

Work on Individual Cases	•	00:00:00	
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Week 9

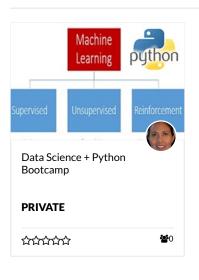


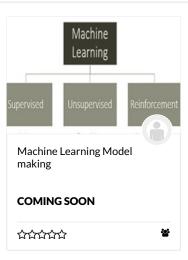
Week 10

Make a Technical Presentation and Submit Code/Report to our Recruiting Partners

• 00:00:00

RELATED COURSES





WHO'S ONLINE

