



DATA SCIENCE TRAINING

DATA SCIENCE WITH PYTHON

SYLLABUS (2/8-2/9/2020)

Minimum Prerequisites

- Have taken statistics, probability, calculus and linear algebra in an academic setting.
- Basic Python programming skills
- Strong personal motivation to tackle data sets and become a data scientist
- If you don't have statistic or Python knowledge, please contact us, we will provide related courses.

Major benefit from this 2 days Data Science training program



Data Scientist Certificate
from IDEAS



Industry hand-on coding and
analysis experience



Three end-to-end
industry projects



Mock interview with
senior data science interviewer



Job referrals
in IDEAS community

Schedule

Session 1	Intro to Data Science
	<ul style="list-style-type: none">• Data Science Project Full Cycle• Intro to Machine Learning• Exploration Analysis

Session 2	Python Data Science Eco-System
	<ul style="list-style-type: none"> • Pandas • Numpy
Session 3	Machine Learning Algorithm - Supervised Learning
	<ul style="list-style-type: none"> • Supervised Learning: Classification • Supervised Learning: Regression
Session 4	Machine Learning Algorithm - Unsupervised Learning
	<ul style="list-style-type: none"> • Unsupervised Learning: Clustering and outlier detection • Unsupervised Learning: Dimension Reduction
Session 5	Deep Learning - Neural Network
	<ul style="list-style-type: none"> • Intro to Neurons & Math • Convolution Neural Network • Recurrent Neural Network • Pooling • Dropout • Activation • Optimizers • Regularization
Session 6	Project 1 - Fraud Detection in Finance Industry
Session 7	Project 2 - Churn Analysis
Session 8	Project 3 - Data Exploration in E-Commerce project
Bonus	Data Scientist Mock Interview

Email to Dean@joinideas.org to customize your training program.

<https://www.joinideas.org>

*Discount available to IDEAS members and students.