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## Introduction to Python

Dec 27, 2017







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Intermediate Python

Apr 14, 2019







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Python Data Science Toolbox (Part 1)

Apr 17, 2019







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Introduction to Importing Data in Python

Apr 14, 2019







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Intermediate Importing Data in Python

Apr 15, 2019







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Statistical Thinking in Python (Part 1)

Apr 28, 2019







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Supervised Learning with scikit-learn

May 01, 2020







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**Unsupervised Learning in Python** 

May 02, 2020







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Introduction to R for Finance

Nov 19, 2017







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Intermediate R for Finance

Nov 25, 2017







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Manipulating Time Series Data with xts and zoo in R

Nov 26, 2017







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Time Series Analysis in R

Dec 03, 2017







#4544681

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## ARIMA Models in R

COMPLETED ON Dec 09, 2017







#4581114

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# Case Studies: Manipulating Time Series Data in

Aug 03, 2018





#6684162

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## Forecasting in R

Aug 04, 2018





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Visualizing Time Series Data in R

Aug 05, 2018







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Introduction to Portfolio Analysis in R

Mar 28, 2020







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Intermediate Portfolio Analysis in R

Mar 29, 2020





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## **Bond Valuation and Analysis in R**

Apr 04, 2020







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Quantitative Risk Management in R

COMPLETED ON Mar 29, 2020







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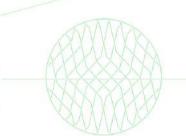
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Introduction to SQL

Dec 03, 2017









4 Courses

What is Data Science?

Tools for Data Science

Data Science Methodology

Databases and SQL for Data

Science



06/19/2020

#### Sajjad Haider

has successfully completed the online, non-credit Specialization

#### Introduction to Data Science

In this Specialization learners developed foundational Data Science skills to prepare them for a career or further learning that involves more advanced topics in Data Science. The specialization entailed understanding what is Data Science is and the various kinds of activities that a Data Scientist's perform. It familiarized learners with various open source tools, like Jupyter notebooks, used by Data Scientists. It taught them about methodology involved in tackling data science problems. The specialization also provided knowledge of relational database concepts and the use of SQL to query databases. Learners completed hands-on labs and projects to apply their newly acquired skills and knowledge.

Romeo Kienzler Chief Data Scientist IBM Watson IoT

Alex Aklson, Ph.D.
Data Scientist

Polong Lin Data Scientist, IBM

Rav Ahuja Al & Data Science Program Director

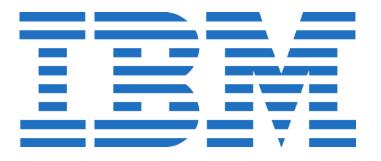
IBM Skills Network

Svetlana Levitan

Svetlana Levitan Senior Developer Advocate IBM Center for Open Data and Al Technologies

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Verify this certificate at: coursera.org/verify/specialization/JMA638X9RB89



04/03/2020

## Sajjad Haider

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What is Data Science?

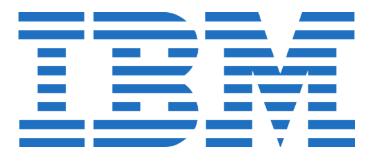
an online non-credit course authorized by IBM and offered through Coursera

COURSE CERTIFICATE



Alex Aklson, Ph.D. Data Scientist Polong Lin Data Scientist, IBM

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Tools for Data Science

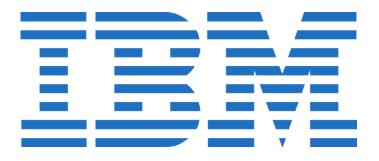
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#### Data Science Methodology

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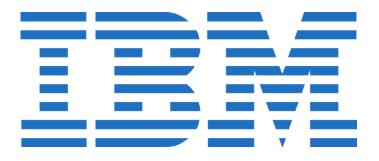
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Alex Aklson, Ph.D.
Data Scientist

Polong Lin Data Scientist, IBM

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Python for Data Science and AI

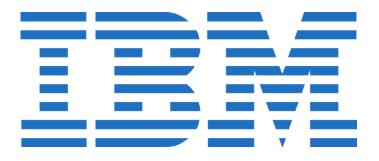
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Joseph Santarcangelo Senior Data Scientist IBM

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#### Databases and SQL for Data Science

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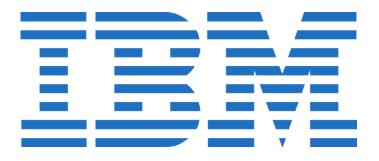
Ru Muis

Rav Ahuja AI & Data Science Program Director IBM Skills Network

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#### Data Analysis with Python

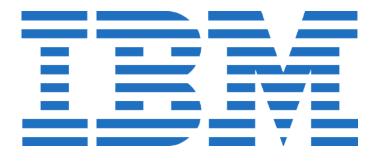
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Joseph Santarcangelo Senior Data Scientist IBM

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#### Data Visualization with Python

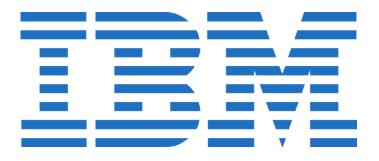
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COURSE CERTIFICATE



Alex Aklson, Ph.D.
Data Scientist

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#### Machine Learning with Python

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Dovel A.

Saeed Aghabozorgi Sr. Data Scientist IBM J Sastaronget

Joseph Santarcangelo Senior Data Scientist IBM

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#### Neural Networks and Deep Learning

an online non-credit course authorized by deeplearning ai and offered through Coursera



Adjunct Professor Andrew Ng Computer Science

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06/03/2020

#### Sajjad Haider

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Improving Deep Neural Networks: Hyperparameter tuning, Regularization and Optimization

an online non-credit course authorized by deeplearning.ai and offered through Coursera



Adjunct Professor Andrew Ng Computer Science

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#### Structuring Machine Learning Projects

an online non-credit course authorized by deeplearning ai and offered through Coursera



Adjunct Professor Andrew Ng Computer Science

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06/13/2020

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#### Sequence Models

an online non-credit course authorized by deeplearning ai and offered through Coursera



Adjunct Professor Andrew Ng Computer Science

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4 Courses

Introduction to TensorFlow for Artificial Intelligence, Machine Learning, and Deep Learning

Convolutional Neural Networks in TensorFlow

Natural Language Processing in TensorFlow

Sequences, Time Series and Prediction



06/09/2020

#### Sajjad Haider

has successfully completed the online, non-credit Specialization

#### TensorFlow in Practice

In this specialization, you got a grounding in what you need to get started with TensorFlow: In Practice. The goal was to help you take the next steps, such as going deeper into understanding Machine Learning and the practice of understanding loss functions, optimizers and more, or perhaps you want to know more about neural networks and the different types of layers, from convolutions to recurrent or LSTM. Now that you have used some of them and seen the impact of different layer types in practice, you can go forward equipped to go deeper!



Laurence Moroney is an Al Advocate at Google Research

The online specialization named in this certificate may draw on material from courses taught on-campus, but the included courses are not equivalent to on-campus courses. Participation in this online specialization does not constitute enrollment at this university. This certificate does not confer a University grade, course credit or degree, and it does not verify the identity of the learner.

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# **CERTIFICATE**OF COMPLETION

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## Sajjad Haider

for successfully completing

Intro to Data and Data Science

04/Apr/2020

Date

Nedko Krastev CEO, 365 Data Science

#cert\_n2h33pjs



has been awarded to

#### Sajjad Haider

for successfully completing

Introduction to Microsoft Excel

05/Apr/2020

Date

Nedko Krastev CEO, 365 Data Science

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Probability

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Date

Nedko Krastev CEO, 365 Data Science

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**Statistics** 

12/Apr/2020

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**Mathematics** 

05/Apr/2020

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Tableau

07/Apr/2020

Date

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**PowerBI** 

10/Apr/2020

Date

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#cert\_vkfszcxl



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### Sajjad Haider

for successfully completing **SQL** 

11/Apr/2020

Date

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for successfully completing

SQL + Tableau

13/Apr/2020

Date

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#cert\_6ggj9vgv



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for successfully completing

Introduction to Python

13/Apr/2020

Date

Nedko Krastev

CEO, 365 Data Science

#cert\_7ls5898k



has been awarded to

#### Sajjad Haider

for successfully completing

The Python Programmer Bootcamp

13/Apr/2020

Date

Nedko Krastev CEO, 365 Data Science

#cert 8z9f0jjq



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for successfully completing

Git and GitHub

12/Apr/2020

Date

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Introduction to R Programming

14/Apr/2020

Date

Nedko Krastev

CEO, 365 Data Science

#cert\_m9q4tp2r



has been awarded to

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for successfully completing

Deep Learning with TensorFlow

14/Apr/2020

Date

Nedko Krastev

CEO, 365 Data Science



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#### Sajjad Haider

for successfully completing

Deep Learning with TensorFlow 2.0

14/Apr/2020

Date

Nedko Krastev

CEO, 365 Data Science



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SQL + Tableau + Python

12/Apr/2020

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Credit Risk Modeling in Python

15/Apr/2020

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CEO, 365 Data Science

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Time Series Analysis in Python

15/Apr/2020

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Customer Analytics in Python

15/Apr/2020

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CEO, 365 Data Science



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Web Scraping and API Fundamentals in Python

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Nedko Krastev CEO, 365 Data Science



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Advanced Statistical Methods in Python

14/Apr/2020

Date

Nedko Krastev CEO, 365 Data Science