

STATEMENT OF ACCOMPLISHMENT

#3764748

HAS BEEN AWARDED TO
sajjad haider

FOR SUCCESSFULLY COMPLETING
Introduction to Python

COMPLETED ON
Dec 27, 2017



DataCamp



STATEMENT OF ACCOMPLISHMENT

#4736140

HAS BEEN AWARDED TO

sajjad haider

FOR SUCCESSFULLY COMPLETING

Intermediate Python

COMPLETED ON

Apr 14, 2019



DataCamp



STATEMENT OF ACCOMPLISHMENT

#9265178

HAS BEEN AWARDED TO
sajjad haider

FOR SUCCESSFULLY COMPLETING

Python Data Science Toolbox (Part 1)

COMPLETED ON
Apr 17, 2019



DataCamp



STATEMENT OF ACCOMPLISHMENT

#9253066

HAS BEEN AWARDED TO
sajjad haider

FOR SUCCESSFULLY COMPLETING

Introduction to Importing Data in Python

COMPLETED ON
Apr 14, 2019



DataCamp



STATEMENT OF ACCOMPLISHMENT

#9254694

HAS BEEN AWARDED TO

sajjad haider

FOR SUCCESSFULLY COMPLETING

Intermediate Importing Data in Python

COMPLETED ON

Apr 15, 2019



DataCamp



STATEMENT OF ACCOMPLISHMENT

#9375662

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sajjad haider

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Statistical Thinking in Python (Part 1)

COMPLETED ON
Apr 28, 2019



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STATEMENT OF ACCOMPLISHMENT

#13693100

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sajjad haider

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Supervised Learning with scikit-learn

COMPLETED ON

May 01, 2020



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STATEMENT OF ACCOMPLISHMENT

#13723024

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Unsupervised Learning in Python

COMPLETED ON

May 02, 2020



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STATEMENT OF ACCOMPLISHMENT

#4402463

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FOR SUCCESSFULLY COMPLETING

Introduction to R for Finance

COMPLETED ON
Nov 19, 2017



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STATEMENT OF ACCOMPLISHMENT

#4408800

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Intermediate R for Finance

COMPLETED ON

Nov 25, 2017



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STATEMENT OF ACCOMPLISHMENT

#4455251

HAS BEEN AWARDED TO
sajjad haider

FOR SUCCESSFULLY COMPLETING

**Manipulating Time Series Data with xts and
zoo in R**

COMPLETED ON
Nov 26, 2017



DataCamp



STATEMENT OF ACCOMPLISHMENT

#4490812

HAS BEEN AWARDED TO

sajjad haider

FOR SUCCESSFULLY COMPLETING

Time Series Analysis in R

COMPLETED ON

Dec 03, 2017



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STATEMENT OF ACCOMPLISHMENT

#4544681

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sajjad haider

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ARIMA Models in R

COMPLETED ON

Dec 09, 2017



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STATEMENT OF ACCOMPLISHMENT

#4581114

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sajjad haider

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Case Studies: Manipulating Time Series Data in R

COMPLETED ON
Aug 03, 2018



DataCamp



STATEMENT OF ACCOMPLISHMENT

#6684162

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sajjad haider

FOR SUCCESSFULLY COMPLETING

Forecasting in R

COMPLETED ON

Aug 04, 2018



DataCamp



STATEMENT OF ACCOMPLISHMENT

#6686072

HAS BEEN AWARDED TO
sajjad haider

FOR SUCCESSFULLY COMPLETING

Visualizing Time Series Data in R

COMPLETED ON
Aug 05, 2018



DataCamp



STATEMENT OF ACCOMPLISHMENT

#10657783

HAS BEEN AWARDED TO
sajjad haider

FOR SUCCESSFULLY COMPLETING

Introduction to Portfolio Analysis in R

COMPLETED ON
Mar 28, 2020



DataCamp



STATEMENT OF ACCOMPLISHMENT

#10660132

HAS BEEN AWARDED TO

sajjad haider

FOR SUCCESSFULLY COMPLETING

Intermediate Portfolio Analysis in R

COMPLETED ON

Mar 29, 2020



DataCamp



STATEMENT OF ACCOMPLISHMENT

#13233097

HAS BEEN AWARDED TO

sajjad haider

FOR SUCCESSFULLY COMPLETING

Bond Valuation and Analysis in R

COMPLETED ON

Apr 04, 2020



DataCamp



STATEMENT OF ACCOMPLISHMENT

#10657790

HAS BEEN AWARDED TO

sajjad haider

FOR SUCCESSFULLY COMPLETING

Quantitative Risk Management in R

COMPLETED ON

Mar 29, 2020



DataCamp



STATEMENT OF ACCOMPLISHMENT

#4522179

HAS BEEN AWARDED TO
sajjad haider

FOR SUCCESSFULLY COMPLETING
Introduction to SQL

COMPLETED ON
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.

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.

Romeo Kienzler
Chief Data Scientist
IBM Watson IoT

Polong Lin
Data Scientist, IBM

Alex Aklson, Ph.D.
Data Scientist

Rav Ahuja
AI & Data Science
Program Director
IBM Skills Network

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

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



04/03/2020

Sajjad Haider

has successfully completed

What is Data Science?

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

A handwritten signature in black ink, appearing to read 'Alex Aklson', written over a horizontal dotted line.

Alex Aklson, Ph.D.
Data Scientist

A handwritten signature in black ink, appearing to read 'Polong Lin', written over a horizontal dotted line.

Polong Lin
Data Scientist, IBM

**COURSE
CERTIFICATE**



Verify at coursera.org/verify/85B99U6TF842

Coursera has confirmed the identity of this individual and
their participation in the course.



04/03/2020

Sajjad Haider

has successfully completed

Tools for Data Science

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

A handwritten signature in blue ink, appearing to read 'Polong Lin', written over a horizontal dotted line.

Polong Lin
Data Scientist, IBM

**COURSE
CERTIFICATE**



Verify at coursera.org/verify/8J6EFSM8BP42

Coursera has confirmed the identity of this individual and
their participation in the course.



04/04/2020

Sajjad Haider

has successfully completed

Data Science Methodology

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

A handwritten signature in black ink, appearing to read 'Alex Aklson', written over a horizontal dotted line.

Alex Aklson, Ph.D.
Data Scientist

A handwritten signature in black ink, appearing to read 'Polong Lin', written over a horizontal dotted line.

Polong Lin
Data Scientist, IBM

**COURSE
CERTIFICATE**



Verify at coursera.org/verify/SR32PAMJ5ENZ

Coursera has confirmed the identity of this individual and
their participation in the course.



04/05/2020

Sajjad Haider

has successfully completed

Python for Data Science and AI

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

A handwritten signature in black ink, reading "Joseph Santarcangelo".

Joseph Santarcangelo
Senior Data Scientist
IBM

**COURSE
CERTIFICATE**



Verify at coursera.org/verify/KTWC6WJ67GGA

Coursera has confirmed the identity of this individual and
their participation in the course.



06/14/2020

Sajjad Haider

has successfully completed

Databases and SQL for Data Science

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

A handwritten signature in black ink, appearing to read 'Rav Ahuja', written over a horizontal dotted line.

Rav Ahuja
AI & Data Science Program Director
IBM Skills Network

COURSE CERTIFICATE



Verify at coursera.org/verify/HCURV3Z2NYJ8

Coursera has confirmed the identity of this individual and
their participation in the course.



04/07/2020

Sajjad Haider

has successfully completed

Data Analysis with Python

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

A handwritten signature in black ink, reading "Joseph Santarcangelo".

Joseph Santarcangelo
Senior Data Scientist
IBM

**COURSE
CERTIFICATE**



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Coursera has confirmed the identity of this individual and
their participation in the course.



04/18/2020

Sajjad Haider

has successfully completed

Data Visualization with Python

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

A handwritten signature in black ink, appearing to read 'Alex Aklson', written over a horizontal dotted line.

Alex Aklson, Ph.D.
Data Scientist

**COURSE
CERTIFICATE**



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Coursera has confirmed the identity of this individual and
their participation in the course.



04/08/2020

Sajjad Haider

has successfully completed

Machine Learning with Python

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

A handwritten signature in black ink, reading "Saeed A." in a cursive style.

Saeed Aghabozorgi
Sr. Data Scientist
IBM

A handwritten signature in black ink, reading "J. Santarcangelo" in a cursive style.

Joseph Santarcangelo
Senior Data Scientist
IBM

**COURSE
CERTIFICATE**



Verify at coursera.org/verify/UESXR9QJBCK4
Coursera has confirmed the identity of this individual and
their participation in the course.



05/23/2020

Sajjad Haider

has successfully completed

Neural Networks and Deep Learning

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

A handwritten signature in blue ink, appearing to read "Andrew Ng".

Adjunct Professor Andrew Ng
Computer Science

**COURSE
CERTIFICATE**



Verify at coursera.org/verify/TCACT56TQVUH

Coursera has confirmed the identity of this individual and
their participation in the course.



06/03/2020

Sajjad Haider

has successfully completed

**Improving Deep Neural Networks:
Hyperparameter tuning, Regularization and
Optimization**

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

A handwritten signature in blue ink, appearing to read "Andrew Ng".

Adjunct Professor Andrew Ng
Computer Science

**COURSE
CERTIFICATE**



Verify at coursera.org/verify/H69ASWZKM9ZM

Coursera has confirmed the identity of this individual and
their participation in the course.



06/04/2020

Sajjad Haider

has successfully completed

Structuring Machine Learning Projects

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

A handwritten signature in blue ink, appearing to read "Andrew Ng".

Adjunct Professor Andrew Ng
Computer Science

**COURSE
CERTIFICATE**



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Coursera has confirmed the identity of this individual and
their participation in the course.



06/13/2020

Sajjad Haider

has successfully completed

Sequence Models

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

A handwritten signature in blue ink, reading "Andrew Ng".

Adjunct Professor Andrew Ng
Computer Science

**COURSE
CERTIFICATE**



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Coursera has confirmed the identity of this individual and
their participation in the course.



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
AI Advocate at Google
Research

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Verify this certificate at:
coursera.org/verify/specialization/77L9N6FK4QD5



CERTIFICATE OF COMPLETION

has been awarded to
Sajjad Haider

for successfully completing
Intro to Data and Data Science

04/Apr/2020

Date

A handwritten signature in black ink, appearing to be "Nedko Krastev", written over a horizontal line.

Nedko Krastev
CEO, 365 Data Science

#cert_n2h33pjs



CERTIFICATE OF COMPLETION

has been awarded to
Sajjad Haider

for successfully completing
Introduction to Microsoft Excel

05/Apr/2020

Date

A handwritten signature in black ink, appearing to be "Nedko Krastev", written over a horizontal line.

Nedko Krastev
CEO, 365 Data Science



CERTIFICATE OF COMPLETION

has been awarded to
Sajjad Haider

for successfully completing
Probability

06/Apr/2020

Date

A handwritten signature in black ink, appearing to be "Nedko Krastev", written over a horizontal line.

Nedko Krastev
CEO, 365 Data Science

#cert_hvk8lpk8



CERTIFICATE OF COMPLETION

has been awarded to
Sajjad Haider

for successfully completing
Statistics

12/Apr/2020

Date

A handwritten signature in black ink, appearing to be "Nedko Krastev", written over a horizontal line.

Nedko Krastev
CEO, 365 Data Science

cert_s4f3wqbs



CERTIFICATE OF COMPLETION

has been awarded to
Sajjad Haider

for successfully completing
Mathematics

05/Apr/2020

Date

A handwritten signature in black ink, appearing to be "Nedko Krastev", written over a horizontal line.

Nedko Krastev
CEO, 365 Data Science

#cert_kl0w7qzm



CERTIFICATE OF COMPLETION

has been awarded to
Sajjad Haider

for successfully completing
Tableau

07/Apr/2020

Date

A handwritten signature in black ink, appearing to be "Nedko Krastev", written over a horizontal line.

Nedko Krastev
CEO, 365 Data Science

#cert_dk75fq63



CERTIFICATE OF COMPLETION

has been awarded to
Sajjad Haider

for successfully completing
PowerBI

10/Apr/2020

Date

A handwritten signature in black ink, appearing to be "Nedko Krastev", written over a horizontal line.

Nedko Krastev
CEO, 365 Data Science

#cert_ykfszcxl



CERTIFICATE OF COMPLETION

has been awarded to
Sajjad Haider

for successfully completing
SQL

11/Apr/2020

Date

A handwritten signature in black ink, appearing to be "Nedko Krastev", written over a horizontal line.

Nedko Krastev
CEO, 365 Data Science

#cert_589j5frx



CERTIFICATE OF COMPLETION

has been awarded to
Sajjad Haider

for successfully completing
SQL + Tableau

13/Apr/2020

Date

A handwritten signature in black ink, appearing to be "Nedko Krastev", written over a horizontal line.

Nedko Krastev
CEO, 365 Data Science

#cert_6ggj9vgv



CERTIFICATE OF COMPLETION

has been awarded to
Sajjad Haider

for successfully completing
Introduction to Python

13/Apr/2020

Date

A handwritten signature in black ink, appearing to be "Nedko Krastev", written over a horizontal line.

Nedko Krastev
CEO, 365 Data Science

#cert_7ls5898k



CERTIFICATE OF COMPLETION

has been awarded to
Sajjad Haider

for successfully completing
The Python Programmer Bootcamp

13/Apr/2020

Date

A handwritten signature in black ink, appearing to be "Nedko Krastev", written over a horizontal line.

Nedko Krastev
CEO, 365 Data Science

#cert_8z9f0jjq



CERTIFICATE OF COMPLETION

has been awarded to
Sajjad Haider

for successfully completing
Git and GitHub

12/Apr/2020

Date

A handwritten signature in black ink, appearing to be "Nedko Krastev", written over a horizontal line.

Nedko Krastev
CEO, 365 Data Science

#cert_sp9chqpk



CERTIFICATE OF COMPLETION

has been awarded to
Sajjad Haider

for successfully completing
Introduction to R Programming

14/Apr/2020

Date

A handwritten signature in black ink, appearing to be "Nedko Krastev", written over a horizontal line.

Nedko Krastev
CEO, 365 Data Science

#cert_m9q4tp2r



CERTIFICATE OF COMPLETION

has been awarded to
Sajjad Haider

for successfully completing
Deep Learning with TensorFlow

14/Apr/2020

Date

A handwritten signature in black ink, appearing to be "Nedko Krastev", written over a horizontal line.

Nedko Krastev
CEO, 365 Data Science

#cert_l7rc2qsd



CERTIFICATE OF COMPLETION

has been awarded to
Sajjad Haider

for successfully completing
Deep Learning with TensorFlow 2.0

14/Apr/2020

Date

A handwritten signature in black ink, appearing to be "Nedko Krastev", written over a horizontal line.

Nedko Krastev
CEO, 365 Data Science

#cert_kv8skmzq



CERTIFICATE OF COMPLETION

has been awarded to
Sajjad Haider

for successfully completing
SQL + Tableau + Python

12/Apr/2020

Date

A handwritten signature in black ink, appearing to be "Nedko Krastev", written over a horizontal line.

Nedko Krastev
CEO, 365 Data Science

#cert_r2zsmflk



CERTIFICATE OF COMPLETION

has been awarded to
Sajjad Haider

for successfully completing
Credit Risk Modeling in Python

15/Apr/2020

Date

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Nedko Krastev
CEO, 365 Data Science

cert_qq6zggsn



CERTIFICATE OF COMPLETION

has been awarded to
Sajjad Haider

for successfully completing
Time Series Analysis in Python

15/Apr/2020

Date

A handwritten signature in black ink, likely belonging to Nedko Krastev, the CEO of 365 Data Science.

Nedko Krastev
CEO, 365 Data Science

#cert_kfswmw9b



CERTIFICATE OF COMPLETION

has been awarded to
Sajjad Haider

for successfully completing
Customer Analytics in Python

15/Apr/2020

Date

A handwritten signature in black ink, appearing to be "Nedko Krastev", written over a horizontal line.

Nedko Krastev
CEO, 365 Data Science

#cert_drhfnypz



CERTIFICATE OF COMPLETION

has been awarded to

Sajjad Haider

for successfully completing

**Web Scraping and API Fundamentals
in Python**

Date

A stylized, handwritten signature in black ink, likely belonging to Nedko Krastev.

Nedko Krastev
CEO, 365 Data Science

#cert_123456789



CERTIFICATE OF COMPLETION

has been awarded to
Sajjad Haider

for successfully completing
**Advanced Statistical Methods in
Python**

14/Apr/2020

Date

A handwritten signature in black ink, appearing to be "Nedko Krastev", written over a horizontal line.

Nedko Krastev
CEO, 365 Data Science

#cert_77qyl4xb