



8 Courses

Introduction to Data Analytics

Excel Basics for Data Analysis

Data Visualization and Dashboards with Excel and Cognos

Introduction to R Programming for Data Science

SQL for Data Science with R

Data Analysis with R

Data Visualization with R

Data Science with R - Capstone Project



Aug 27, 2021

ESTEBAN ANDRES CARBONI

has successfully completed the online, non-credit Professional Certificate

IBM Data Analytics with Excel and R

In this Professional Certificate, learners discovered the many responsibilities of data analysts and data scientists. They used Excel to prepare data for analysis and visualized it using pivot tables, charts, and dashboards. They worked with Cognos Analytics to create interactive dashboards. Learners also developed foundational knowledge of R programming language & data science packages, considered essential skills for data scientists and data analysts. The Certificate program covered the full data analysis process, including data preparation and access, statistical analysis, and predictive modeling, and data visualization. Learners completed a Capstone Project at the end to apply their new data analytics knowledge and skills to a real-world dataset and prepared a report for stakeholders.

Rav Ahuja,
Program Director,
IBM Skills Network

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.

Verify this certificate at:
coursera.org/verify/professional-cert/C2WT9ZFCPWUB



6 Courses

**Exploratory Data Analysis
for Machine Learning**

**Supervised Machine
Learning: Regression**

**Supervised Machine
Learning: Classification**

**Unsupervised Machine
Learning**

**Deep Learning and
Reinforcement Learning**

**Specialized Models: Time
Series and Survival Analysis**



Jun 20, 2021

ESTEBAN ANDRES CARBONI

has successfully completed the online, non-credit Professional Certificate

IBM Machine Learning

Machine Learning is one of the most in-demand skills for jobs related to modern AI applications, a field in which hiring has grown 74% annually for the last four years (LinkedIn). This Professional Certificate from IBM provides evidence that the above named individual developed skills in Machine Learning: Unsupervised Learning, Supervised Learning, Deep Learning, and Reinforcement Learning; including Time Series Analysis and Survival Analysis. This program consisted of 6 courses providing a solid theoretical understanding and considerable practice of the main algorithms, uses, and best practices related to Machine Learning.

Mark J Grover
Digital Content Delivery
Lead
IBM Data & AI Learning

Miguel Maldonado
Machine Learning
Curriculum Developer
Data and AI Learning

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coursera.org/verify/professional-cert/KYH9NJVZLFL8



9 Courses

Introduction to Data Analytics

Excel Basics for Data Analysis

Data Visualization and Dashboards with Excel and Cognos

Python for Data Science, AI & Development

Python Project for Data Science

Databases and SQL for Data Science with Python

Data Analysis with Python

Data Visualization with Python

IBM Data Analyst Capstone Project



Mar 30, 2021

ESTEBAN ANDRES CARBONI

has successfully completed the online, non-credit Professional Certificate

IBM Data Analyst

This IBM Professional Certificate is earned after successfully completing 9 courses on various topics in Data Analytics. The learner understands the core principles of data analysis and has worked hands-on with a variety of data sources, project scenarios, and data analysis tools, including Excel, SQL, Relational Databases, Python, Jupyter Notebooks, and Cognos Analytics, gaining practical experience with data manipulation, data analysis, and data visualization. The earner of this Certificate has demonstrated proficiency in applying different analytical techniques by analyzing real-world datasets, creating visualizations & interactive dashboards, and presenting reports to share findings of data analysis, and is now equipped with skills for an entry-level role in data analytics.

Rav Ahuja, Program
Director, IBM Skills
Network

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Verify this certificate at:
[coursera.org/verify/professional-
cert/H8MNR84MLABY](https://coursera.org/verify/professional-cert/H8MNR84MLABY)



4 Courses

**Excel Skills for Business:
Essentials**

**Excel Skills for Business:
Intermediate I**

**Excel Skills for Business:
Intermediate II**

**Excel Skills for Business:
Advanced**



Jan 17, 2021

ESTEBAN ANDRES CARBONI

has successfully completed the online, non-credit Specialization

Excel Skills for Business

In this Specialization, learners develop advanced Excel Skills for Business. Upon completing the four courses in this Specialization, learners can design sophisticated spreadsheets, including professional dashboards, and perform complex calculations using advanced Excel features and techniques. Learners have acquired the skills to manage large datasets efficiently, extract meaningful information from datasets, present data and extract information effectively. In addition, learners have mastered the skills needed to validate data and prevent errors in spreadsheets, create automation, apply advanced formulas and conditional logic to help make decisions and create spreadsheets that help forecast and model data.

Dr. Yvonne Breyer,
Director Learning &
Teaching, Business &
Economics, Macquarie
University, Sydney
Australia (Ph.D.,
Macquarie University,
Sydney, Australia; MA,
Duisburg-Essen,
Germany)

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Verify this certificate at:
coursera.org/verify/specialization/EJMAU2MWRBL7



10 Courses

The Data Scientist's Toolbox

R Programming

Getting and Cleaning Data

Exploratory Data Analysis

Reproducible Research

Statistical Inference

Regression Models

Practical Machine Learning

Developing Data Products

Data Science Capstone



Dec 1, 2020

Esteban Andrés Carboni

has successfully completed the online, non-credit Specialization

Data Science

The Data Science Specialization covers the concepts and tools for an entire data science pipeline. Successful participants learn how to use the tools of the trade, think analytically about complex problems, manage large data sets, deploy statistical principles, create visualizations, build and evaluate machine learning algorithms, publish reproducible analyses, and develop data products. This certificate does not confer academic credit toward a degree or official status at the Johns Hopkins University.

Jeff Leek, PhD; Roger Peng, PhD; Brian Caffo, PhD

Department of Biostatistics
Johns Hopkins
Bloomberg School of Public Health

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Verify this certificate at:
coursera.org/verify/specialization/8Y59VLJGV2J6

Stanford | ONLINE

03/23/2020

Esteban Andrés Carboni

has successfully completed

Machine Learning

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

Associate Professor Andrew Ng
Computer Science Department
Stanford University

SOME ONLINE COURSES MAY DRAW ON MATERIAL FROM COURSES TAUGHT ON-CAMPUS BUT THEY ARE NOT EQUIVALENT TO ON-CAMPUS COURSES. THIS STATEMENT DOES NOT AFFIRM THAT THIS PARTICIPANT WAS ENROLLED AS A STUDENT AT STANFORD UNIVERSITY IN ANY WAY. IT DOES NOT CONFER A STANFORD UNIVERSITY GRADE, COURSE CREDIT OR DEGREE, AND IT DOES NOT VERIFY THE IDENTITY OF THE PARTICIPANT.

COURSE
CERTIFICATE



Verify at coursera.org/verify/RHKT6UGNW8XE

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

Yale

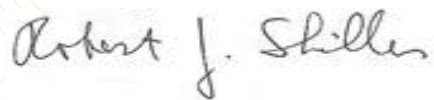
01/16/2020

Esteban Andrés Carboni

has successfully completed with honors

Financial Markets

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



Robert J. Shiller
Sterling Professor of Economics
Yale University

COURSE CERTIFICATE

WITH HONORS



Verify at coursera.org/verify/FANBMVV9HPPP

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



5 Courses

Introduction to Data Science in Python

Applied Plotting, Charting & Data Representation in Python

Applied Machine Learning in Python

Applied Text Mining in Python

Applied Social Network Analysis in Python



11/13/2019

Esteban Andrés Carboni

has successfully completed the online, non-credit Specialization

Applied Data Science with Python

The 5 courses in this University of Michigan specialization introduce learners to data science through the python programming language. This skills-based specialization is intended for learners who have a basic python or programming background, and want to apply statistical, machine learning, information visualization, and text analysis techniques to gain new insight into their data. In the final course, students will work on real-world data analysis projects, building a portfolio which showcases their work while at the same time helping real clients gain a better understanding of their data.

Christopher Brooks,
Ph.D., MS, Kevyn Collins-
Thompson, Ph.D., VG
Vinod Vydiswaran, Ph.D.,
M.Tech, Daniel Romero,
Ph.D.,

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Verify this certificate at:
coursera.org/verify/specialization/JCPTFVRXMQR2



4 Courses

Fundamentals of Scalable Data Science

Advanced Machine Learning and Signal Processing

Applied AI with DeepLearning

Advanced Data Science Capstone



10/10/2019

Esteban Andrés Carboni

has successfully completed the online, non-credit Specialization

Advanced Data Science with IBM

As a coursera certified specialization completer you will have a proven deep understanding on massive parallel data processing, data exploration and visualization, and advanced machine learning & deep learning. You'll understand the mathematical foundations behind all machine learning & deep learning algorithms. You can apply knowledge in practical use cases, justify architectural decisions, understand the characteristics of different algorithms, frameworks & technologies & how they impact model performance & scalability.

Tom Hanlon
Training Director
Skymind

Ilja Rasin
Data Scientist
IBM Watson Health

Romeo Kienzler
Chief Data Scientist
IBM Watson IoT

Max Pumperla
Deep Learning Engineer

Niketani Pansare
Senior Software
Engineer
IBM Research

Nikolay Manchev
Senior Data Scientist
IBM EMEA Data Science
(2015-2019)

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Verify this certificate at:
coursera.org/verify/specialization/T223GWJMLPU3



9 Courses

What is Data Science?

Open Source tools for Data Science

Data Science Methodology

Python for Data Science and AI

Databases and SQL for Data Science

Data Analysis with Python

Data Visualization with Python

Machine Learning with Python

Applied Data Science Capstone



08/18/2019

Esteban Andrés Carboni

has successfully completed the online, non-credit Professional Certificate

IBM Data Science Professional Certificate

In this Professional Certificate learners developed and honed hands-on skills in Data Science and Machine Learning. Learners started with an orientation of Data Science and its Methodology, became familiar and used a variety of data science tools, learned Python and SQL, performed Data Visualization and Analysis, and created Machine Learning models. In the process they completed several labs and assignments on the cloud including a Capstone Project at the end to apply and demonstrate their knowledge and skills.

Joseph Santarcangelo
Senior Data Scientist
IBM

Polong Lin
Data Scientist, IBM

Alex Aklson, Ph.D.
Data Scientist

Rav Ahuja
AI & Data Science
Program Director,
IBM Skills Network

Saeed Aghabozorgi
Sr. Data Scientist
IBM

Verify this certificate at:
coursera.org/verify/specialization/35LCQ6BD3AZJ