



Oct 19, 2020

MD SABBIR HOSEN EMON

has successfully completed

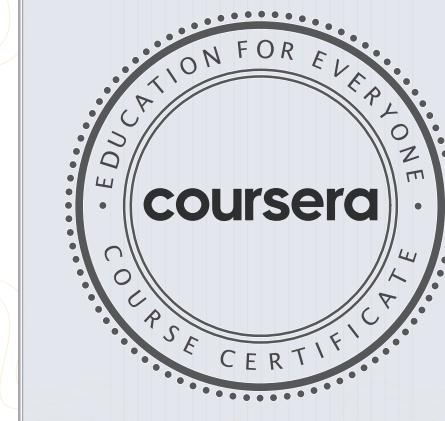
Using Python to Access Web Data

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

A handwritten signature in black ink that appears to read "Charles Severance".

Charles Severance
Clinical Professor, School of Information
University of Michigan

COURSE CERTIFICATE



Verify at coursera.org/verify/6L2CDUL9AXW2

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



Mar 3, 2021

MD SABBIR HOSEN EMON

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 that appears to read "Andrew Ng".

Andrew Ng, Founder, DeepLearning.AI & Co-founder, Coursera
Kian Katanforoosh, Co-founder, Workera
Younes Bensouda Mourri, Instructor of AI, Stanford University

COURSE CERTIFICATE



Verify at coursera.org/verify/6QZKWEF2TK43

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



Apr 21, 2021

MD SABBIR HOSEN EMON

has successfully completed

Convolutional Neural Networks

an online non-credit course authorized by DeepLearning.AI and offered through Coursera

A handwritten signature in blue ink that appears to read "Andrew Ng".

Andrew Ng, Founder, DeepLearning.AI & Co-founder, Coursera
Kian Katanforoosh, Co-founder, Workera
Younes Bensouda Mourri, Instructor of AI, Stanford University

COURSE CERTIFICATE



Verify at coursera.org/verify/8YNDGD48GAHQ

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



Jun 18, 2021

MD SABBIR HOSEN EMON

has successfully completed

What is Data Science?

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

Rav Ahuja
Global Program Director,
Skills Network

Alex Aklson, Ph.D.
Data Scientist

COURSE CERTIFICATE



Verify at coursera.org/verify/A25EGYL43YB7

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



9-Sep-2020

MD SABBIR HOSEN EMON

has successfully completed

Introduction to Structured Query Language (SQL)

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

A handwritten signature in black ink that appears to read "Charles Severance".

Charles Severance
Clinical Professor, School of Information
University of Michigan

COURSE
CERTIFICATE



Verify at coursera.org/verify/AZD99B6DW3N8

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



5 Courses

**Programming for Everybody
(Getting Started with
Python)**

Python Data Structures

**Using Python to Access Web
Data**

**Using Databases with
Python**

**Capstone: Retrieving,
Processing, and Visualizing
Data with Python**



Feb 3, 2021

MD SABBIR HOSEN EMON

has successfully completed the online, non-credit Specialization

Python for Everybody

This Specialization builds on the success of the Python for Everybody course and will introduce fundamental programming concepts including data structures, networked application program interfaces, and databases, using the Python programming language. In the Capstone Project, you'll use the technologies learned throughout the Specialization to design and create your own applications for data retrieval, processing, and visualization.

A handwritten signature in black ink that appears to read "Charles".

Charles Severance
Clinical Associate
Professor, School of
Information
University of Michigan

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/specialization/DQ8P3AMKVGPB



Apr 17, 2020

MD SABBIR HOSEN EMON

has successfully completed

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

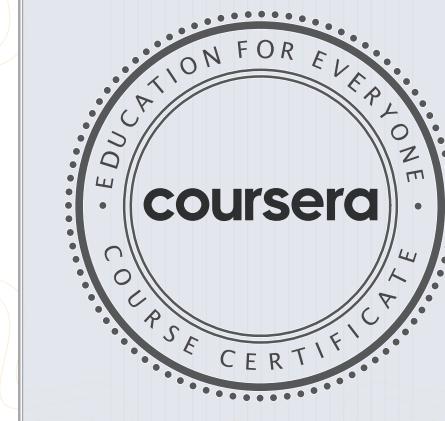
an online non-credit course authorized by DeepLearning.AI and offered through Coursera



A handwritten signature in blue ink that reads "Laurence Moroney".

Laurence Moroney
Lead AI Advocate, Google

COURSE CERTIFICATE



Verify at coursera.org/verify/DTXET5ZXJ4M

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



Oct 13, 2021

MD SABBIR HOSEN EMON

has successfully completed

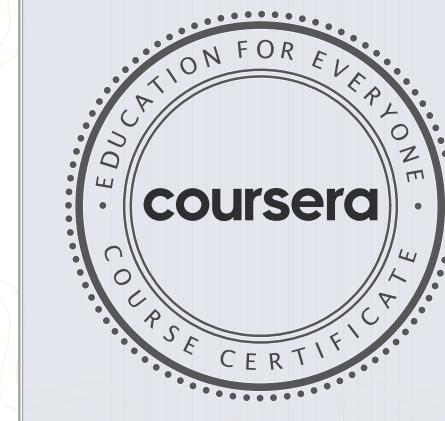
The Arduino Platform and C Programming

an online non-credit course authorized by University of California, Irvine and offered through Coursera

A handwritten signature in black ink that reads "Ian Harris". The signature is written in a cursive style with a horizontal dotted line underneath it.

Ian Harris
Professor
Department of Computer Science

COURSE CERTIFICATE



Verify at coursera.org/verify/E8FBMR6EGMWP

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



5 Courses

**Programming for Everybody
(Getting Started with
Python)**

Python Data Structures

**Using Python to Access Web
Data**

**Using Databases with
Python**

**Capstone: Retrieving,
Processing, and Visualizing
Data with Python**



Oct 21, 2020

MD SABBIR HOSEN EMON

has successfully completed the online, non-credit Specialization

Python for Everybody

This Specialization builds on the success of the Python for Everybody course and will introduce fundamental programming concepts including data structures, networked application program interfaces, and databases, using the Python programming language. In the Capstone Project, you'll use the technologies learned throughout the Specialization to design and create your own applications for data retrieval, processing, and visualization.

A handwritten signature in black ink that appears to read "Charles".

Charles Severance
Clinical Associate
Professor, School of
Information
University of Michigan

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Verify this certificate at:
coursera.org/verify/specialization/EZHNWAJSMH5T



Oct 22, 2021

MD SABBIR HOSEN EMON

has successfully completed

Databases and SQL for Data Science with Python

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

Rav Ahuja
Global Program Director,
Skills Network

Hima Vasudevan
IBM

COURSE CERTIFICATE



Verify at coursera.org/verify/FAEW64AFFF43

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



MACQUARIE
University
SYDNEY · AUSTRALIA

Jun 12, 2020

MD SABBIR HOSEN EMON

has successfully completed

Excel Skills for Business: Essentials

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

Handwritten signatures of three individuals: Nicky Bull, Dr Prashan S. M. Karunaratne, and A/Professor Yvonne Breyer.

Nicky Bull, Lecturer and Lead Content Designer

Dr Prashan S. M. Karunaratne, Lecturer - Teaching & Leadership | Department of Actuarial Studies & Business Analytics
A/Professor Yvonne Breyer, Director, Learning & Teaching | Head, Learning Futures

COURSE CERTIFICATE



Verify at coursera.org/verify/FRBZ4QGGQJM5

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



Apr 20, 2020

MD SABBIR HOSEN EMON

has successfully completed

Convolutional Neural Networks in TensorFlow

an online non-credit course authorized by DeepLearning.AI and offered through Coursera



A handwritten signature in blue ink that reads "Laurence Moroney".

Laurence Moroney
Lead AI Advocate, Google

COURSE CERTIFICATE



Verify at coursera.org/verify/FVSLMYQDZGFP

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



Sep 21, 2020

MD SABBIR HOSEN EMON

has successfully completed

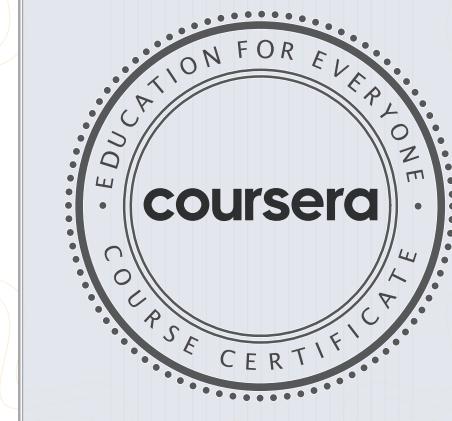
Web Application Technologies and Django

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

A handwritten signature in black ink that appears to read "Charles Severance".

Charles Severance
Clinical Professor, School of Information
University of Michigan

COURSE CERTIFICATE



Verify at coursera.org/verify/JR3AH4Q847XY

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



Oct 21, 2020

MD SABBIR HOSEN EMON

has successfully completed

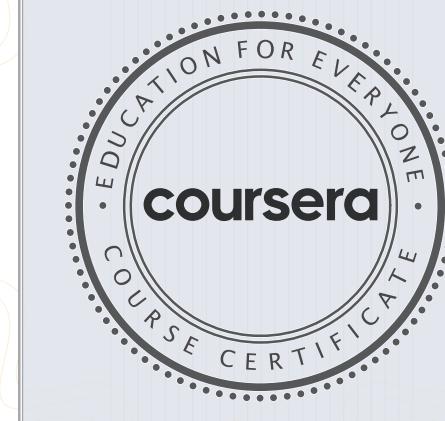
Capstone: Retrieving, Processing, and Visualizing Data with Python

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

A handwritten signature in black ink that appears to read "Charles Severance".

Charles Severance
Clinical Professor, School of Information
University of Michigan

COURSE CERTIFICATE



Verify at coursera.org/verify/J SND393VQ2XQ

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



5 Courses

Neural Networks and Deep Learning

Improving Deep Neural Networks: Hyperparameter Tuning, Regularization and Optimization

Structuring Machine Learning Projects

Convolutional Neural Networks

Sequence Models



Apr 30, 2021

MD SABBIR HOSEN EMON

has successfully completed the online, non-credit Specialization

Deep Learning

Congratulations! You have completed all 5 courses of the Deep Learning Specialization. In this Specialization, you built neural network architectures such as Convolutional Neural Networks, Recurrent Neural Networks, LSTMs, Transformers, and learned how to make them better with strategies such as Dropout, BatchNorm, and Xavier/He initialization. You mastered these theoretical concepts, learned their industry applications using Python and TensorFlow, and tackled real-world cases such as speech recognition, music synthesis, chatbots, machine translation, natural language processing, and more. You are now familiar with the capabilities and challenges of deep learning. You are ready to take the definitive step in the world of AI and participate in the development of leading-edge technology.

A blue ink signature of the name "Andrew Ng".

Andrew Ng,
Founder,
DeepLearning.AI

Kian Katanforoosh
Co-founder, Workera

Younes Bensouda
Mourri
Instructor of AI,
Stanford University

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Verify this certificate at:
coursera.org/verify/specialization/K7AZ3VT8X8RJ



Northwestern University

Oct 6, 2021

MD SABBIR HOSEN EMON

has successfully completed

Modern Robotics, Course 1: Foundations of Robot Motion

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

A handwritten signature in black ink that reads "Kevin M. Lynch".

Kevin M. Lynch
Professor of Mechanical Engineering
Northwestern University

COURSE
CERTIFICATE



Verify at coursera.org/verify/MZWCE35M66L2

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



Oct 11, 2020

MD SABBIR HOSEN EMON

has successfully completed

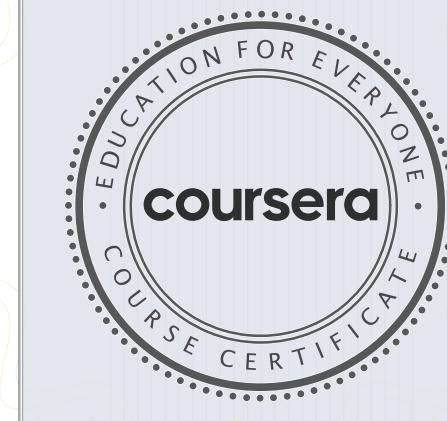
Programming for Everybody (Getting Started with Python)

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

A handwritten signature in black ink that appears to read "Charles Severance".

Charles Severance
Clinical Professor, School of Information
University of Michigan

COURSE CERTIFICATE



Verify at coursera.org/verify/N4NKBTCMYZX7

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



Apr 21, 2020

MD SABBIR HOSEN EMON

has successfully completed

Sequences, Time Series and Prediction

an online non-credit course authorized by DeepLearning.AI and offered through Coursera



A handwritten signature in blue ink that reads "Laurence Moroney".

Laurence Moroney
Lead AI Advocate, Google

COURSE CERTIFICATE



Verify at coursera.org/verify/NLXN9VZN5FWW

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



Apr 14, 2021

MD SABBIR HOSEN EMON

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 that appears to read "Andrew Ng".

Andrew Ng, Founder, DeepLearning.AI & Co-founder, Coursera
Kian Katanforoosh, Co-founder, Workera
Younes Bensouda Mourri, Instructor of AI, Stanford University

COURSE CERTIFICATE



Verify at coursera.org/verify/PGU225RB2AQ6

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



Apr 9, 2021

MD SABBIR HOSEN EMON

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 that appears to read "Andrew Ng".

Andrew Ng, Founder, DeepLearning.AI & Co-founder, Coursera
Kian Katanforoosh, Co-founder, Workera
Younes Bensouda Mourri, Instructor of AI, Stanford University

COURSE CERTIFICATE



Verify at coursera.org/verify/PZB4ANC6QKGP

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



Jul 13, 2020

MD SABBIR HOSEN EMON

has successfully completed

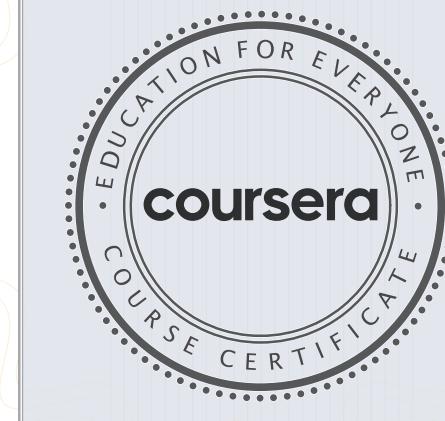
Understanding Financial Statements: Company Performance

an online non-credit course authorized by University of Illinois at Urbana-Champaign and offered through Coursera

A handwritten signature in black ink that appears to read "Kevin E. Jackson".

Kevin E. Jackson
Associate Professor of Accountancy and PwC Faculty Fellow
Department of Accountancy
College of Business

COURSE CERTIFICATE



Verify at coursera.org/verify/QC5NNUHRZAJG

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



Oct 11, 2021

MD SABBIR HOSEN EMON

has successfully completed

Introduction to the Internet of Things and Embedded Systems

an online non-credit course authorized by University of California, Irvine and offered
through Coursera

A handwritten signature in black ink, appearing to read "Ian Harris".

Ian Harris
Professor
Department of Computer Science

COURSE CERTIFICATE



Verify at coursera.org/verify/RFLG9J228QYW

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



May 8, 2020

MD SABBIR HOSEN EMON

has successfully completed

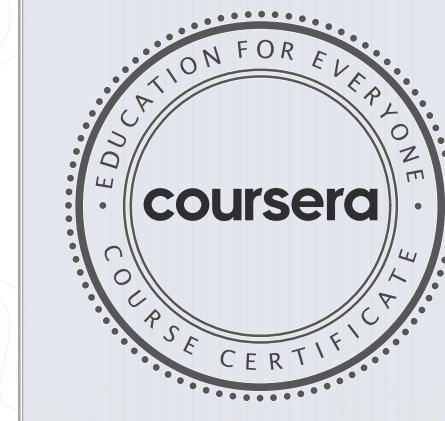
Mathematics for Machine Learning: Multivariate Calculus

an online non-credit course authorized by Imperial College London and offered through Coursera

Handwritten signatures of three individuals: David Dye, Samuel J. Cooper, and A. Freddie Page, written in black ink.

David Dye, Samuel J. Cooper, and A. Freddie Page

COURSE CERTIFICATE



Verify at coursera.org/verify/SDTZVZA82ZGH

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



Oct 16, 2020

MD SABBIR HOSEN EMON

has successfully completed

Python Data Structures

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

A handwritten signature in black ink that appears to read "Charles Severance".

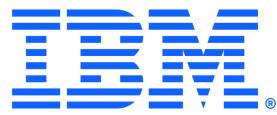
Charles Severance
Clinical Professor, School of Information
University of Michigan

COURSE CERTIFICATE



Verify at coursera.org/verify/SKX99WBAL2US

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



Oct 23, 2021

MD SABBIR HOSEN EMON

has successfully completed

Data Science Methodology

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

A. Aklson
Alex Aklson, Ph.D.
Data Scientist

P. Lin
Polong Lin
Data Scientist, IBM

COURSE CERTIFICATE



Verify at coursera.org/verify/SZ62HN5WFHV9

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



Sep 8, 2020

MD SABBIR HOSEN EMON

has successfully completed

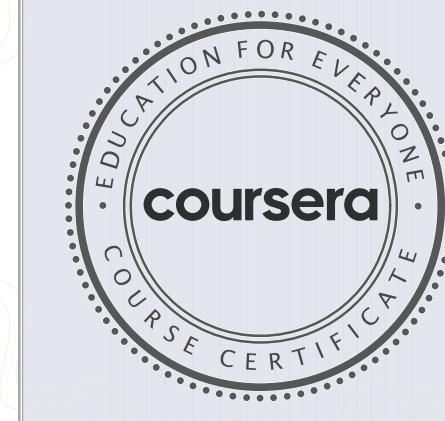
Building Web Applications in PHP

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

A handwritten signature in black ink that appears to read "Charles Severance".

Charles Severance
Clinical Professor, School of Information
University of Michigan

COURSE CERTIFICATE



Verify at coursera.org/verify/U9UCC9X88H54

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



Oct 21, 2020

MD SABBIR HOSEN EMON

has successfully completed

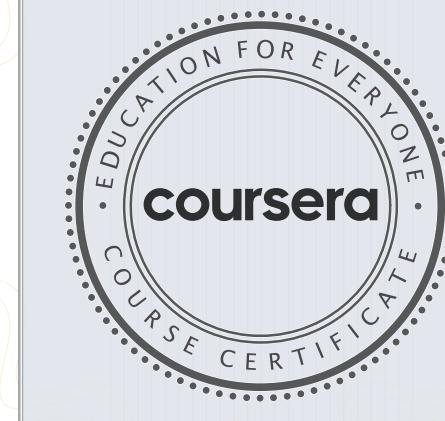
Using Databases with Python

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

A handwritten signature in black ink that appears to read "Charles Severance".

Charles Severance
Clinical Professor, School of Information
University of Michigan

COURSE CERTIFICATE



Verify at coursera.org/verify/UFG49NH49DML

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



May 4, 2020

MD SABBIR HOSEN EMON

has successfully completed

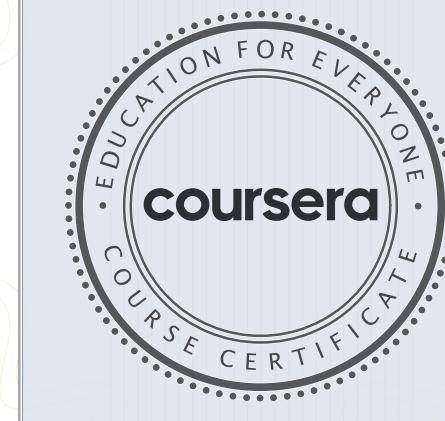
Mathematics for Machine Learning: Linear Algebra

an online non-credit course authorized by Imperial College London and offered through Coursera

Handwritten signatures of three individuals: David Dye, Samuel J. Cooper, and A. Freddie Page, written in cursive ink.

David Dye, Samuel J. Cooper, and A. Freddie Page

COURSE CERTIFICATE



Verify at coursera.org/verify/UTKYC9M2LFWS

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



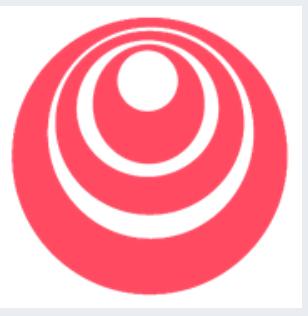
4 Courses

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



Apr 21, 2020

MD SABBIR HOSEN EMON

has successfully completed the online, non-credit Professional Certificate

DeepLearning.AI TensorFlow Developer

Congratulations! You have completed all 4 courses of the DeepLearning.AI TensorFlow Developer Professional Certificate program. As part of this Professional Certificate program, you have learned: how to build and train neural networks using TensorFlow, how to improve network performance using convolutions as you train it to identify real-world images, how to teach machines to understand, analyze, and respond to human speech with natural language processing systems, and more! These, and other TensorFlow concepts, are going to be at the forefront of the coming transformation to an AI-powered future.



Laurence Moroney
Lead AI Advocate
Google

Andrew Ng
Founder
DeepLearning.AI

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Verify this certificate at:
coursera.org/verify/professional-cert/UUF5DMX2557N



4 Courses

What is Data Science?
Tools for Data Science
Data Science Methodology
Databases and SQL for Data Science with Python



Oct 23, 2021

MD SABBIR HOSEN EMON

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.

Rav Ahuja
AI & Data Science
Program Director
IBM Skills Network

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Verify this certificate at:
coursera.org/verify/specialization/UZP99YJ4TJHP



Jul 6, 2020

MD SABBIR HOSEN EMON

has successfully completed

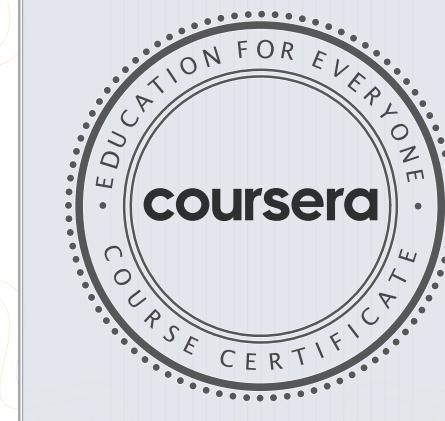
Understanding Financial Statements: Company Position

an online non-credit course authorized by University of Illinois at Urbana-Champaign and offered through Coursera

A handwritten signature in black ink that appears to read "Kevin E. Jackson".

Kevin E. Jackson
Associate Professor of Accountancy and PwC Faculty Fellow
Department of Accountancy
College of Business

COURSE CERTIFICATE



Verify at coursera.org/verify/WEYBLRW2JY59

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



UNIVERSITY
OF LONDON

Mar 29, 2021

MD SABBIR HOSEN EMON

has successfully completed

University of London BSc Computer Science
Orientation Course

an online non-credit course authorized by University of London, Goldsmiths, University
of London and offered through Coursera

Student Relationship Managers

COURSE CERTIFICATE



Verify at coursera.org/verify/WF28ERJSWMRL

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



Sep 15, 2020

MD SABBIR HOSEN EMON

has successfully completed

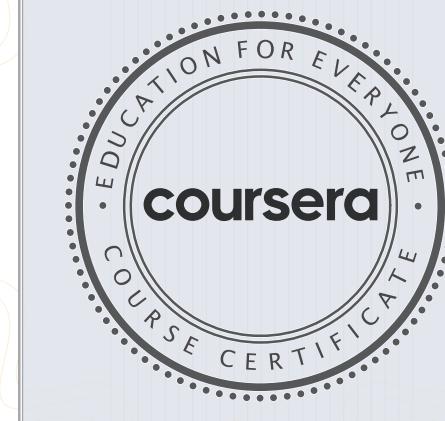
Building Database Applications in PHP

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

A handwritten signature in black ink that appears to read "Charles Severance".

Charles Severance
Clinical Professor, School of Information
University of Michigan

COURSE CERTIFICATE



Verify at coursera.org/verify/WSHKS87J4G9B

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



May 12, 2020

MD SABBIR HOSEN EMON

has successfully completed

Mathematics for Machine Learning: PCA

an online non-credit course authorized by Imperial College London and offered through Coursera

A handwritten signature in blue ink that reads "Marc Deisenroth".

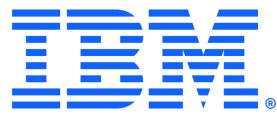
Marc Deisenroth
Lecturer in Statistical Machine Learning
Department of Computing
Imperial College London

COURSE CERTIFICATE



Verify at coursera.org/verify/XEX98Q5RVYT7

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



Oct 23, 2021

MD SABBIR HOSEN EMON

has successfully completed

Tools for Data Science

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



Maureen McElaney
Romeo Kienzler
Svetlana Levitan

COURSE CERTIFICATE



Verify at coursera.org/verify/XGGZJYMJ3EJ5

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



3 Courses

Mathematics for Machine Learning: Linear Algebra

Mathematics for Machine Learning: Multivariate Calculus

Mathematics for Machine Learning: PCA

Imperial College London

May 12, 2020

MD SABBIR HOSEN EMON

has successfully completed the online, non-credit Specialization

Mathematics for Machine Learning

A sequence of 3 courses on the prerequisite mathematics for applications in data science and machine learning. Successful participants learn how to represent data in a linear algebra context and manipulate these objects mathematically. They are able to summarise properties of data sets and map them onto lower dimensional spaces with principal component analysis. Finally they can solve optimisation problems and use this skill to train models for describing data such as simple neural networks.

Three handwritten signatures are stacked vertically. The top signature is "David Dye", the middle is "Samuel J. Cooper", and the bottom is "Marc Deisenroth".

David Dye
Professor of Metallurgy
Department of
Materials
Imperial College London

Samuel J. Cooper
Lecturer
Dyson School of Design
Engineering
Imperial College London

Marc Deisenroth
Senior Lecturer
Department of
Computing
Imperial College London

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



Apr 21, 2020

MD SABBIR HOSEN EMON

has successfully completed

Natural Language Processing in TensorFlow

an online non-credit course authorized by DeepLearning.AI and offered through Coursera



A handwritten signature in blue ink that reads "Laurence Moroney".

Laurence Moroney
Lead AI Advocate, Google

COURSE CERTIFICATE



Verify at coursera.org/verify/YF7Q8EAFVN8S

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



Code with Mosh

CERTIFICATE OF GRADUATION

Awarded To

SABBIR HOSEN EMON

Graduating From

The Ultimate Git Course

Date: 2021-09-13

Serial No.

cert_cy66qhnj



Code with Mosh

CERTIFICATE OF GRADUATION

Awarded To

SABBIR HOSEN EMON

Graduating From

The Ultimate Data Structures & Algorithms: Part 1

Date: 2021-07-26

Serial No.

cert_146gpcpl



Code with Mosh

CERTIFICATE OF GRADUATION

Awarded To

SABBIR HOSEN EMON

Graduating From

The Ultimate Data Structures & Algorithms: Part 2

Date: 2021-07-27

Serial No.

cert_bf2tk1vw



Code with Mosh

CERTIFICATE OF GRADUATION

Awarded To

SABBIR HOSEN EMON

Graduating From

The Ultimate Data Structures & Algorithms: Part 3

Date: 2021-07-28

Serial No.

cert_sx7xbg31



Certificate no: UC-64458238-d749-4790-a65b-f0c38b962344

Certificate url: ude.my/UC-64458238-d749-4790-a65b-f0c38b962344

Reference Number: 0004

CERTIFICATE OF COMPLETION

JavaScript: The Advanced Concepts (2022 Update)

Instructors **Andrei Neagoie, Zero To Mastery**

Sabbir Hosen Emon

Date **14 Feb 2022**

Length **25.5 total hours**



Oct 27, 2021

MD SABBIR HOSEN EMON

has successfully completed

Interfacing with the Arduino

an online non-credit course authorized by University of California, Irvine and offered through Coursera

A handwritten signature in black ink that reads "Ian Harris". The signature is written in a cursive style with a horizontal dotted line underneath it.

Ian Harris
Professor
Department of Computer Science

COURSE CERTIFICATE



Verify at coursera.org/verify/4VFNWFR9TTUN

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



Apr 30, 2021

MD SABBIR HOSEN EMON

has successfully completed

Sequence Models

an online non-credit course authorized by DeepLearning.AI and offered through Coursera

A handwritten signature in blue ink that reads "Andrew Ng".

Andrew Ng, Founder, DeepLearning.AI
Kian Katanforoosh, Co-founder, Workera
Younes Bensouda Mourri, Instructor of AI, Stanford University

COURSE CERTIFICATE



Verify at coursera.org/verify/5PHLSJRSYCN7

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