

Verified Certificate

This is to certify that

NATTAPHAT JANTARAMANEE

successfully completed and received a passing
grade in

CV0101EN: Computer Vision and Image Processing Fundamentals

a course of study offered by IBM, an online learning
initiative of IBM.



A handwritten signature in black ink, appearing to read "Aije Egwaikhide".

Aije Egwaikhide

Senior Data Scientist

IBM

A handwritten signature in black ink, appearing to read "Joseph Santarcangelo".

Joseph Santarcangelo

PhD., Data Scientist

IBM



Verified Certificate

Issued November 23, 2021

Valid Certificate ID

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Joseph Santarcangelo
PhD., Data Scientist

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This is to certify that

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**DL0110EN: Deep Learning with Python and
PyTorch**

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DL0120EN: Deep Learning with Tensorflow

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Saeed A.

Saeed Aghabozorgi, PhD
Senior Data Scientist

IBM

A stylized, handwritten signature in black ink, appearing to read "Romeo Kienzler".

Romeo Kienzler

Chief Data Scientist, Course Lead

IBM



Verified Certificate
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Joseph Santarcangelo

Data Scientist

IBM Developer Skills Network

This is to certify that

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DL0320EN: Applied Deep Learning Capstone Project

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Joseph Santarcangelo
PhD., Data Scientist

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This is to certify that

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**ML0210EN: PyTorch Basics for Machine
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IBM DL0101EN

Deep Learning Fundamentals with Keras

[Course](#)[Progress](#)[Dates](#)[Discussion](#)

Your progress

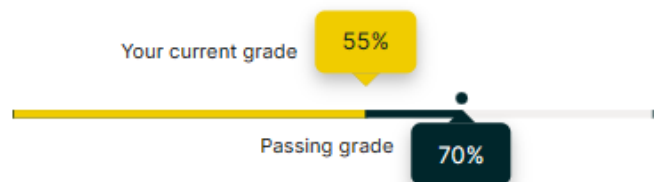
Course completion

This represents how much of the course content you have completed. Note that some content may not yet be released.



Grades

This represents your weighted grade against the grade needed to pass this course.



⚠ A weighted grade of 70% is required to pass in this course

Grade summary ⓘ

Assignment type	Weight	Grade	Weighted grade
Review Questions	50%	65%	33%
Final Exam	50%	45%	23%
Your current weighted grade summary			55%

Detailed grades

Module 1 - Introduction to Deep Learning	Score
▼ Review Questions	2/5
Module 2 - Artificial Neural Networks	Score
▼ Review Questions	5/5
Module 3 - Keras and Deep Learning Libraries	Score
▼ Review Questions	3/5
Module 4 - Deep Learning Models	Score
▼ Review Questions	3/5
Final Exam	Score
▼ Final Exam	9/20

For progress on ungraded aspects of the course, view your [Course Outline](#).



IBM DL0101EN

Deep Learning Fundamentals with Keras

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Deep Learning Fundamentals with Keras

[Pick up where you left off](#)[Resume course](#)[Expand all](#)

✔ Welcome!	+
✔ About this course	+
✔ Module 1 - Introduction to Deep Learning	+
✔ Module 2 - Artificial Neural Networks	+
✔ Module 3 - Keras and Deep Learning Libraries	+
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ส่วนงานคณะเทคโนโลยีและสิ่งแวดล้อม.....

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29 ต.ค. 64	ค่าลงทะเบียน Professional Certificate in Deep learning	17,992	85	
	จำนวน 525.60 \$			
รวมเป็นเงิน (ตัวอักษร) (หนึ่งหมื่นเจ็ดพันเก้าร้อยเก้าสิบบาทแปดสิบบาทสตางค์)		17,992	85	

ข้าพเจ้านายณัฐพัชร จันทรมณี..... ตำแหน่งนักศึกษา.....หน่วยงานที่สังกัดคณะเทคโนโลยีและสิ่งแวดล้อม..... ขอรับรองว่า รายจ่ายข้างต้นนี้ ไม่อาจเรียกใบเสร็จรับเงินจากผู้รับเงินได้ และข้าพเจ้าได้จ่ายค่าใช้จ่ายตามรายละเอียดข้างต้นเพื่อประโยชน์ของมหาวิทยาลัยจริง

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วันที่ 19 ก.ย. 2564