JOHNS HOPKINS UNIVERSITY

COURSE CERTIFICATE

Aug 24, 2026

Alexandra Sofia Gomes Sousa Machado

has successfully completed

Python for Genomic Data Science

an online course authorized by Johns Hopkins University and offered through Coursera

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Mihaela Pertea, PhD
McKusick-Nathans Institute of Genetic Medicine
Johns Hopkins University

Steven L. Salzberg, PhD
McKusick-Nathans Institute of Genetic Medicine
Johns Hopkins University

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

This certificate does not affirm that this learner was enrolled as a student at Johns Hopkins University. It does not confer a JHU grade, course credit or degree; establish a relationship between this learner and JHU; enroll or register this learner at JHU or in any course offered by JHU; or entitle this learner to access or use resources beyond the online courses provided by Coursera.

JOHNS HOPKINS UNIVERSITY

COURSE CERTIFICATE

Jul 19, 2026

Alexandra Sofia Gomes Sousa Machado

has successfully completed

Introduction to Genomic Technologies

an online course authorized by Johns Hopkins University and offered through Coursera

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Steven L. Salzberg, PhD
McKusick-Nathans Institute of Genetic Medicine
Johns Hopkins University

Jeffrey Leek, PhD
Chief Data Officer, Vice President, and J Orin Edson Foundation
Chair of Biostatistics in Public Health Sciences
Fred Hutchinson Cancer Center

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Stanford ONLINE

5 Courses

Introduction to Healthcare

Introduction to Clinical Data

Fundamentals of Machine Learning for Healthcare

Evaluations of AI Applications in Healthcare

AI in Healthcare Capstone

Jul 6, 2026



Nigam H. Shah, MBBS, PhD
Associate Professor of Medicine (Biomedical Informatics)

Alexandra Sofia Gomes Sousa Machado

has successfully completed the online Specialization

AI in Healthcare

Artificial intelligence (AI) has transformed industries around the world, and has the potential to radically alter the field of healthcare. In this specialization, we discuss the current and future applications of AI in healthcare with the goal of learning to bring AI technologies into the clinic safely and ethically. This specialization is designed for both healthcare providers and computer science professionals, offering insights to facilitate collaboration between the disciplines.

This certificate attests to the learner's completion of an online program delivered via Coursera. It does not constitute formal enrollment at any university or entity and does not itself grant academic credit, grades, or a degree. Institutions or organizations may, at their discretion, recognize this learning toward their own programs or credentials.

Verify this certificate at:
https://coursera.org/verify/specialization/8G45LDEDAJN6

udemy

Certificate no: UC-a5c61ece-c765-4fe1-bbce-bfae8b791aba
Certificate url: ude.my/UC-a5c61ece-c765-4fe1-bbce-bfae8b791aba
Reference Number: 0004

CERTIFICATE OF COMPLETION

AI Engineer Production Track: Deploy LLMs & Agents at Scale

Instructors **Ligency , Ed Donner**

Alexandra Machado

Date **Oct. 11, 2026**
Length **18.5 total hours**

Google Cloud

Prompt Design in Vertex AI

Machine Learning & AI

SKILL BADGE · INTRODUCTORY

udemy

Certificate no: UC-ebeaa611-8a67-4d65-b091-916bfc0ed9f6

Certificate url: ude.my/UC-ebeaa611-8a67-4d65-b091-916bfc0ed9f6

Reference Number: 0004

CERTIFICATE OF COMPLETION

The Complete Python Bootcamp From Zero to Hero in Python

Instructors **Jose Portilla, Pierian Training**

Alexandra Machado

Date **Sept. 30, 2025**

Length **22.5 total hours**

In recognition of

Alexandra Machado

For attending the course

Launchpad for Women
Cloud Digital Leader EMEA Edition

Location: Virtual

Date: Oct 29 2024 - Oct 30 2024

Erin Rifkin

Erin Rifkin
Director, Google Cloud Learning Services

Google Cloud

udemy

Certificate no: UC-c1863898-e308-44ed-a615-b20da2bc2285
Certificate url: ude.my/UC-c1863898-e308-44ed-a615-b20da2bc2285
Reference Number: 0004

CERTIFICATE OF COMPLETION

Data Analysis with Pandas and Python

Instructors **Boris Paskhaver**

Alexandra Machado

Date **Jan. 13, 2024**
Length **41 total hours**

udemy

Certificate no: UC-f58ee3f7-097a-4d6f-9ffe-60f57c94a888
Certificate url: ude.my/UC-f58ee3f7-097a-4d6f-9ffe-60f57c94a888
Reference Number: 0004

CERTIFICATE OF COMPLETION

Data Analysis | SQL,Tableau,Power BI & Excel | Real Projects

Instructors **Graeme Gordon**

Alexandra Machado

Date **Oct. 17, 2023**
Length **9.5 total hours**

udemy

Certificate no: UC-cda68cee-e4a2-445f-af17-b58872efd0f6
Certificate url: ude.my/UC-cda68cee-e4a2-445f-af17-b58872efd0f6
Reference Number: 0004

CERTIFICATE OF COMPLETION

Tableau 2022 A-Z: Hands-On Tableau Training for Data Science

Instructors **Kirill Eremenko, SuperDataScience Team, Ligency Team**

Alexandra Machado

Date **Nov. 11, 2023**
Length **8.5 total hours**

udemy

Certificate no: UC-cc1ff2e0-93dd-4157-8ddb-25cc9a2727d6
Certificate url: ude.my/UC-cc1ff2e0-93dd-4157-8ddb-25cc9a2727d6
Reference Number: 0004

CERTIFICATE OF COMPLETION

SQL - MySQL for Data Analytics and Business Intelligence

Instructors **365 Careers**

Alexandra Machado

Date **Dec. 29, 2022**
Length **11 total hours**

udemy

Certificate no: UC-86202e1a-e8ed-452d-8589-4dfcea9dc4e7
Certificate url: ude.my/UC-86202e1a-e8ed-452d-8589-4dfcea9dc4e7
Reference Number: 0004

CERTIFICATE OF COMPLETION

The Ultimate MySQL Bootcamp: Go from SQL Beginner to Expert

Instructors **Colt Steele, Ian Schoonover**

Alexandra Machado

Date **Oct. 21, 2022**
Length **20.5 total hours**

udemy

Certificate no: UC-4ef31f29-df68-45a9-b68f-612436b9ae43
Certificate url: ude.my/UC-4ef31f29-df68-45a9-b68f-612436b9ae43
Reference Number: 0004

CERTIFICATE OF COMPLETION

Microsoft Power BI Desktop for Business Intelligence

Instructors **Maven Analytics, Chris Dutton**

Alexandra Machado

Date **May 28, 2022**
Length **11 total hours**

udemy

Certificate no: UC-f3551d0d-d3de-44e6-a515-4f7752954d4d
Certificate url: ude.my/UC-f3551d0d-d3de-44e6-a515-4f7752954d4d
Reference Number: 0004

CERTIFICATE OF COMPLETION

Microsoft Power BI - A Complete Introduction [2022 EDITION]

Instructors **Manuel Lorenz, Academind by Maximilian Schwarzmüller, Maximilian Schwarzmüller**

Alexandra Machado

Date **April 8, 2022**
Length **14 total hours**

OXFORD
BROOKES
UNIVERSITY

hereby certifies that

ALEXANDRA SOFIA GOMES SOUSA MACHADO

on the 13th June 2011

has been awarded the degree of

MASTER *of* ARCHITECTURE

VICE-CHANCELLOR

ACADEMIC REGISTRAR

0405805

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