

Verified Certificate



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

Joseph Santarcangelo

Data Scientist

IBM

This is to certify that

Abidi Youssef

successfully completed and received a passing grade in

PY0101EN: Python Basics for Data Science

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



Verified Certificate

Issued May 20, 2024

Valid Certificate ID

[e233359a1f34492da4900b9d5204445b](#)