

Verified
Certificate



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

Joseph Santarcangelo
Data Scientist

IBM

This is to certify that

KALAIVANI B

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 October 15, 2021

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