Verified Certificate



This is to certify that

Joseph Santarcangelo

Data Scientist

IBM

ayush.kulshrestha@woodmac.com

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 7, 2025 Valid Certificate ID c287ab40e0694305ac85d9c36ba2cfb4