



Joseph Santarcangelo  
Data Scientist  
IBM

This is to certify that

**Hiran Joy**

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 September 18, 2023

**Valid Certificate ID**  
[c1cf8e0271b74f0f9a606bb7bb418049](#)