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Ghufran Barcha

has successfully completed

Python for Data Science, AI & Development

an online non-credit course authorized by IBM and offered through Coursera

COURSE CERTIFICATE



of Sastaronget

Joseph Santarcangelo Senior Data Scientist IBM

Verify at: https://coursera.org/verify/BK3ASRYPHY3X

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