

Jun 14, 2025

## Joao Vitor Barros da Silva

has successfully completed

Machine Learning with Python

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

COURSE CERTIFICATE



& astaronget

Joseph Santarcangelo Senior Data Scientist IBM Jeff Grossman Subject Matter Expert Skill-Up Technologies

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