

Apr 14, 2024

## Ghufran Barcha

has successfully completed

Deep Neural Networks with PyTorch

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

COURSE CERTIFICATE



of Sastarongel

Joseph Santarcangelo Senior Data Scientist IBM

Verify at: https://coursera.org/verify/P98V8MTJ2XLF

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