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## Volkan Karaarslan

has successfully completed

Advanced Machine Learning and Signal Processing

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

COURSE CERTIFICATE



Romeo Kienzler Chief Data Scientist IBM Watson IoT Nikolay Manchev Senior Data Scientist IBM EMEA Data Science (2015-2019)

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Coursera has confirmed the identity of this individual and their  ${\tt participation\ in\ the\ course}.$