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Md. Khaled Mahmud Arif

has successfully completed

**Advanced Machine Learning and Signal
Processing**

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

A handwritten signature in black ink, appearing to read 'R. Kienzler', positioned above a horizontal dotted line.

Romeo Kienzler
Chief Data Scientist
IBM Watson IoT

A handwritten signature in black ink, appearing to read 'N. Manchev', positioned above a horizontal dotted line.

Nikolay Manchev
Senior Data Scientist
IBM EMEA Data Science (2015-2019)

**COURSE
CERTIFICATE**



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