



Jan 27, 2024

Ghufran Barcha

has successfully completed

**Introduction to Deep Learning & Neural Networks
with Keras**

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

A handwritten signature in black ink, appearing to read "Alex Akson", written over a horizontal dotted line.

Alex Akson, Ph.D.
Data Scientist

**COURSE
CERTIFICATE**



Verify at:

<https://coursera.org/verify/DW36FPJDLFTU>

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