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arwa Ibrahim muhamed

has successfully completed

**Neural Networks and Deep Learning**

an online non-credit course authorized by deeplearning.ai and offered through  
Coursera

A handwritten signature in blue ink, reading "Andrew Ng".

Adjunct Professor Andrew Ng  
Computer Science

COURSE  
CERTIFICATE



Verify at [coursera.org/verify/54T49YSTZX6Y](https://coursera.org/verify/54T49YSTZX6Y)  
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