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KARTHICK KUMARAN
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has successfully completed

Improving Deep Neural Networks:
Hyperparameter tuning, Regularization and
Optimization

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/W8N8R9PLMS99

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