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Kirthi Shankar Sivamani

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 that reads "Andrew Ng".

Adjunct Professor Andrew Ng
Computer Science

**COURSE
CERTIFICATE**



Verify at coursera.org/verify/3TXJUK8J2B4C

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