

COURSE CERTIFICATE

05/07/2020

## Charles Mackie

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



Adjunct Professor Andrew Ng Computer Science

 $Verify\ at\ coursera.org/verify/CCBJXSLTL4FR$ 

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