

COURSE CERTIFICATE

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MAHMOUD ESSAM FATHY GABR AHMED

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



John Ng

Andrew Ng, Founder, DeepLearning.AI & Co-founder, Coursera

Verify at: https://coursera.org/verify/X29VN4GQKD83

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