

# CERTIFICATE

## Nilesh Kulkarni

Has successfully completed test requirements of  
The European Information Technologies Certification Programme

### EITC/AI/ARL Advanced Reinforced Learning

**Certification Programme examination result:**

 93.33%

**Certification Programme description:**

Introduction: introduction to reinforcement learning; Tradeoff between exploration and exploitation: exploration and exploitation; Markov decision processes: Markov decision processes and dynamic programming; Prediction and control: model-free prediction and control; Deep reinforcement learning: function approximation and deep reinforcement learning, policy gradients and actor critics, planning and models, advanced topics in deep reinforcement learning, deep reinforcement learning agents; Case studies: classic games case study, AlphaGo mastering Go, AlphaZero mastering chess, Shogi and Go, AlphaZero defeating Stockfish in chess, AlphaStar mastering StarCraft II

**Certificate Programme version/revision:** EITC/AI/ARLv1r1

**Earned ECTS credits:** 2



**CERTIFICATE ID:** EITC/AI/ARL/SLJ26004716

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