EUROPEAN INFORMATION TECHNOLOGIES CERTIFICATION INSTITUTE, ASBL.

Brussels, Belgium, European Union

CERTIFICATE

Robert Bulgaru

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

EITC/AI/ARL Advanced Reinforced Learning

Certification Programme examination result: 86.67%

(updated in August 2025)

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 StartCraft II

Certificate Programme version/revision: EITC/AI/ARLv1r1

CERTIFICATE ID: **EITC/AI/ARL/SLJ24005062**

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DATE OF ISSUE:
March 2025
Brussels, Belgium
European Union