RL STUDIO · A HANDS-ON LEARNING PLATFORM · CARIMO DCMK KIT

REINFORCEMENT LEARNING STUDIO

Learn the whole of reinforcement learning by running real algorithms on a real motor. One app. No code.

25+
ALGORITHMS

A real training run in RL Studio · reward climbs as the agent learns

DQN agent, 300k steps



Each point is an evaluation during training. Reward rises steeply, then holds as the agent learns to drive the motor.

A ONE OF A KIND PLATFORM FOR REINFORCEMENT LEARNING, AI, MACHINE LEARNING & ROBOTICS COURSES

IN ONE BREATH

RL Studio brings reinforcement learning to life. Students explore more than 25 algorithms, from the classics every course teaches to modern deep and model-based methods, and watch each one learn on a real motor. It is a simple app: no code to write, no MATLAB, nothing to install. One platform carries a class from its very first lab all the way to a research project.

33
guided RL labs

25+
algorithms to explore

No code
one simple app, no MATLAB

One app, four simple steps

1

BROWSE

Every lab is a card. Pick an algorithm and read what it does before you run it.

2

TRAIN

Train an agent and watch it learn live, as the reward climbs episode by episode.

3

RUN

Run the trained agent on the real motor and watch it in action, step by step.

4

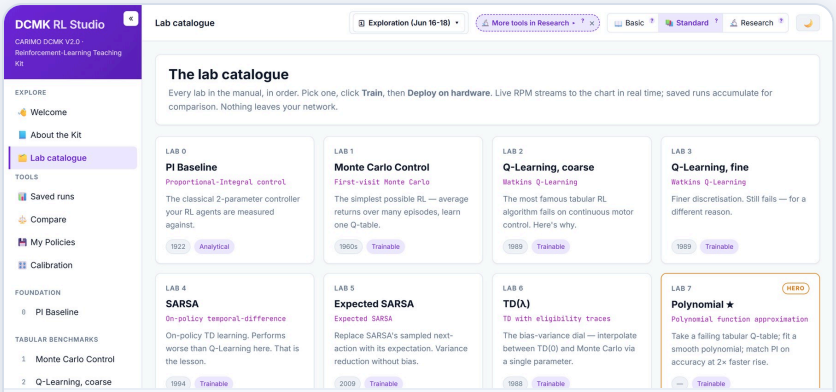
COMPARE

Line up your runs side by side and see how each algorithm behaves.

Safe on real hardware

RL Studio guides you through a quick setup step, then keeps every run safe automatically. Students focus on learning while the app looks after the motor. It works offline on your own PC, so nothing leaves the lab.

See RL Studio in action



The RL Studio dashboard: every algorithm one click away, train and run from one screen.

- ✓ **Real hardware.** Every algorithm runs on a real motor.
- ✓ **No code, no MATLAB.** A simple app anyone can use.
- ✓ **The whole of RL.** Tabular to deep and model-based, 25+ algorithms.
- ✓ **All in one screen.** Browse, train, run and compare.
- ✓ **Made for teaching.** Built for AI, ML and RL courses.

Master the whole of reinforcement learning

FOUNDATIONS & CORE RL

1. **Monte Carlo Control**
   learn from complete episodes
2. **Q-Learning**
   the value-based method every course starts with
3. **SARSA & Expected SARSA**
   on-policy temporal-difference learning
4. **TD(λ)**
   eligibility traces and the bias-variance dial
5. **Cross-Entropy Method**
   elegant policy search that just works
+ **Polynomial policies**
   compact and interpretable, easy to read

DEEP & MODERN RL

6. **DQN**
   deep Q-networks, the classic deep-RL method
7. **A2C · DDPG · TD3**
   actor-critic and continuous-action control
8. **PPO & TRPO**
   the workhorse policy-gradient methods
9. **SAC**
   the popular max-entropy actor-critic
10. **Recurrent PPO · QR-DQN · TQC**
    advanced variants with memory and distributional value
11. **Dreamer & Decision Transformer**
    model-based and offline RL, the modern frontier

Every algorithm runs on **two kinds of task**: reaching a target speed, and holding a target position.

What you need

Software

RL Studio app
An add-on for the DCMK kit
No code, no MATLAB, nothing to install

System

Windows 10 or 11
One free USB port
Works offline on your own PC

Hardware

CARIMO DC Motor Kit (V2.0)
with magnetic load disk
sold separately

The complete reinforcement learning platform. One app, one motor, every algorithm.

Part of the CARIMO DCMK family, built on a 15-year teaching heritage at IIT Bombay

Request a demo or quote | www.carimotech.com | contact@carimo.tech | +91 90823 97027

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