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# DeepAir

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Jul 29, 2022



# CONTENTS

<b>1</b>	<b>Simple way to start</b>	<b>3</b>
<b>2</b>	<b>Indices and tables</b>	<b>5</b>
	<b>Python Module Index</b>	<b>7</b>
	<b>Index</b>	<b>9</b>



**Deepair** (/dip er/) is a Python library that have reliable implementations of Deep reinforcement learning algorithms.



## SIMPLE WAY TO START

Install deepair with pip

```
pip install deepair
```

start with gym env

```
import gym
from deepair.dqn import Rainbow

env = gym.make('LunarLander-v2')

rain = Rainbow(env=env, memory_size=10000, batch_size=32, target_update=256)

rain.train(timesteps=200000)

# test
state = env.reset()
done = False
score = 0

while not done:
    action = rain.select_action(state, deterministic=True)
    next_state, reward, done, info = env.step(action)

    state = next_state
    score += reward

print("score: ", score)
```

## 1.1 Installation

```
pip install deepair
```

## 1.2 Tutorial

### 1.2.1 How to save and load model

## 1.3 RL Algorithms

### 1.3.1 DQN

## 1.4 Custom technique

## 1.5 Developer guides

## 1.6 Deepair

### 1.6.1 deepair package

Subpackages

deepair.dqn package

Module contents

Module contents



## INDICES AND TABLES

- `genindex`
- `modindex`
- `search`



## PYTHON MODULE INDEX

### d

`deepair`, 4



## INDEX

### D

deepair  
    module, [4](#)

### M

module  
    deepair, [4](#)