

Webinar Series on Remote Learning

TITLE

Deep Dive into Machine Learning with AWS DeepRacer

BRIEF SYNOPSIS

AWS DeepRacer is the fastest way to get rolling with machine learning (ML)—literally, with a fully autonomous 1/18th scale race car driven by reinforcement learning (RL), 3D racing simulator, and a global racing league. Developers can train, evaluate, and tune RL models in the online simulator, then deploy their models onto AWS DeepRacer for a real-world autonomous experience. University students: Get ready to compete in the AWS DeepRacer APJ Women’s League 2020.

This session is suitable for beginners, but it’s recommended that you have some understanding of cloud computing prior to joining.

SPEAKERS

Donnie Prakaso
Suresh S. Kartigaysu

SPEAKER BIOS:

Evangelist, AWS
Technical Program Manager, AWS

DURATION

1 hour 8 min

TIMESTAMPS

[0:00](#) – Speaker Introductions

[3:01](#) – Introduction to AWS DeepRacer

[5:35](#) – Introduction to Reinforcement Learning

[10:43](#) – The Reward Function

[26:14](#) – AWS DeepRacer Console Walkthrough

[51:24](#) – AWS DeepRacer League Presented by Accenture

If you enjoyed this content, be sure to check out our live and on-demand webinars [here](#).

Q & A with Donnie Prakaso and Suresh S. Kartigaysu:

Q: How can we get the physical DeepRacer in Australia?

A: We will need to adhere to social distancing policies. Please keep an eye out for events on our public website www.aws.amazon.com.

Q: How can we buy AWS DeepRacer – fully autonomous 1/18th scale race car for developers in Australia?

A: Hi, unfortunately the 1/18th scale race car is not currently available for purchase in Australia. Please check our website for updates and release dates for Australia.

<https://aws.amazon.com/deepracer/pricing/>

Q: Is Python mandatory for DeepRacer?

A: Yes, for AWS DeepRacer the reward function is Python 3 base. It's easy to get started and there are few examples on reward function.

RESOURCES

[Machine Learning on AWS](#) – Machine Learning on AWS

[AWS DeepRacer](#) - AWS DeepRacer is an autonomous 1/18th scale race car designed to test RL models by racing on a physical track. Using cameras to view the track and a reinforcement model to control throttle and steering, the car shows how a model trained in a simulated environment can be transferred to the real-world.

[AWS DeepRacer Developer Guide](#) – Getting Started with AWS DeepRacer

[AWS DeepRacer Quick Start Guide](#) – Getting Started with AWS DeepRacer

[AWS Educate](#) – AWS Educate gives students and educators access to content and programs that enable them to skill up for cloud careers in growing fields. AWS Educate also connects companies hiring for cloud skills to qualified student job seekers with the AWS Educate Job Board.

[AWS Educate Office Hours for Educators and Students](#) – Webinars, office hours, and training sessions for educators and students

[AWS User Groups](#) - User groups are peer-to-peer communities which meet regularly to share ideas, answer questions, and learn about new services and best practices.