CSDS 500 Fall 2022 Colloquium

11:30 AM to 12:30 PM Thursday, October 27, 2022

(Zoom Meeting ID: 935 2774 6217, Passcode: 946606)

"ML in Industry: Cast Study with AWS DeepRacer"

Abstract: DeepRacer is a 1/18th scale car can learn to drive autonomously using reinforcement learning with a monocular camera. It is trained in simulation with no additional tuning in physical world. Using DeepRacer as an example, the talk will cover the typical life-cycle of ML development in industry. DeepRacer also has many components commonly used in robotics and autonomous vehicles: learning in simulation, using cloud infrastructure, importance of calibration, evaluation of robustness. The talk will walk through each of these aspects and how it impacts navigation of DeepRacer.



Bharathan Balaji Amazon

Bio: I'm a research scientist in Amazon working on applying machine learning to achieve sustainability goals. I'm interested in developing methods and systems that help make the world a better place: by reducing waste, through education, and with automation. I have worked on reinforcement learning, smart buildings and internet of things technologies. I did my PhD in UC San Diego in computer science, where I developed a software stack for buildings for automation, convenience, and saving energy.

This is to certify that ______ attended this seminar. Certified by ______.

Certificates of attendance and other evidence of CPD activity should be retained by the attendee for auditing purposes.

