

#### **Sample Applications of Reinforcement Learning**

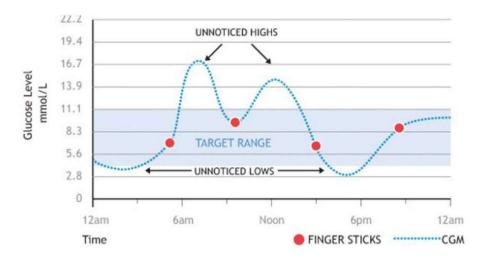
Reinforcement Learning School of Data Science University of Virginia

Last updated: January 16, 2024

### **Medicine**

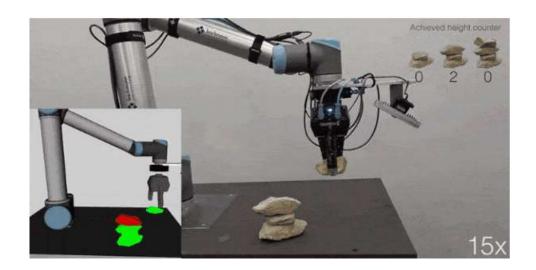
Dynamic Treatment Regimes (DTR) to manage clinical values in a range

Applications for diabetes (graph below), anemia, sepsis, chronic kidney disease mineral bone density



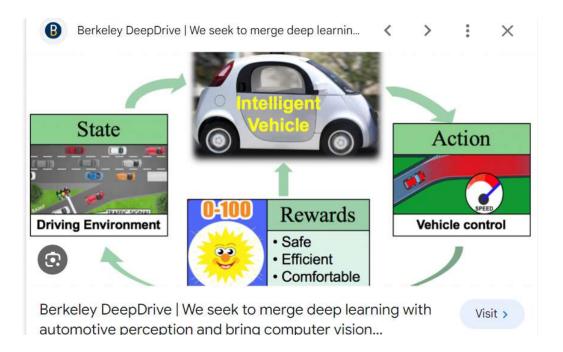
# Robotics

Control a robot in continuous space with continuous actions



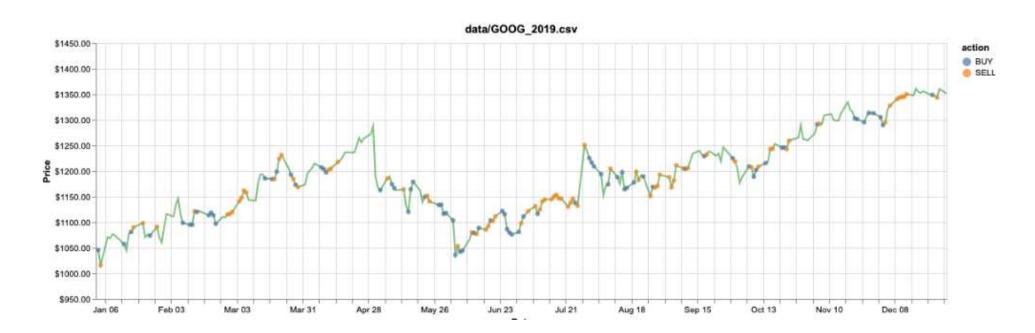
### **Autonomous Vehicles**

Teach vehicles how to navigate safely and efficiently



## **Finance**

Develop trading algorithms that maximize risk-adjusted return



#### **Chatbots**

Improve chatbots with feedback from users

