1. Intro
   1. You know how people say failure good -> improvement and stuff
   2. Imagine failing billions / trillions of times at the same task
      1. One way to see why machines can be better at humans at certain tasks
2. What is RL
   1. Clarification on terms – supervised vs unsupervised, reinforcement learning
      1. How are these similar and different
   2. A method of learning complex tasks that is similar to the way humans learn
      1. A technical viewpoint
      2. Example: learning to ride a bike
3. My experience with RL
   1. Doing research with dr sharon’s lab
   2. Deepracer project
      1. Why RL is good in this situation vs hardcoding an algorithm
4. Real word impacts of RL
   1. Recommendation systems
   2. Neutering llms
   3. Larger impact may seem distant to average person
      1. Energy grid optimization
      2. Supply chain optimization
      3. Financial markets
5. Conclusion
   1. To summarize…
   2. Way of learning that is deeply human
   3. Impacts ubiquitous and complex
   4. Exciting: more possibilities