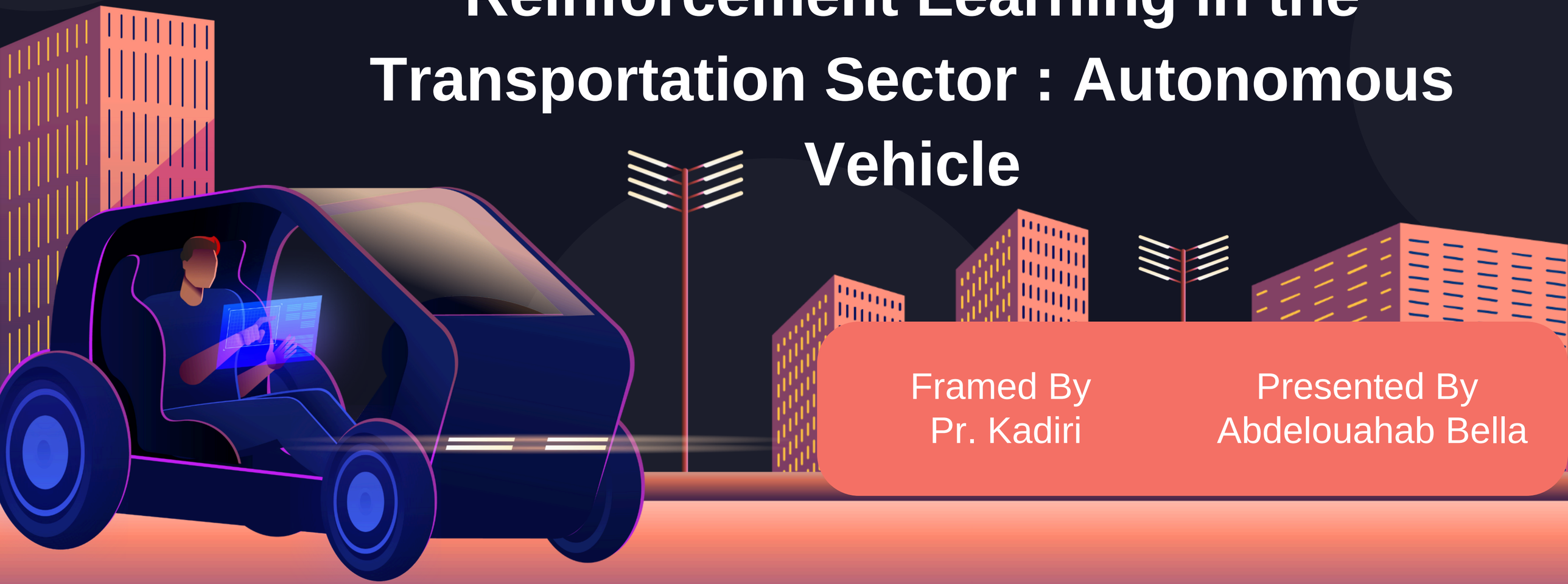
Reinforcement Learning in the Transportation Sector : Autonomous Vehicle



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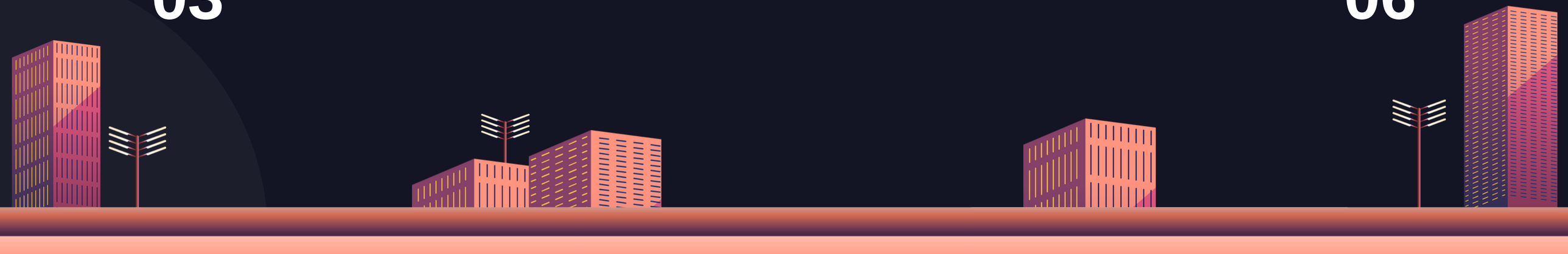

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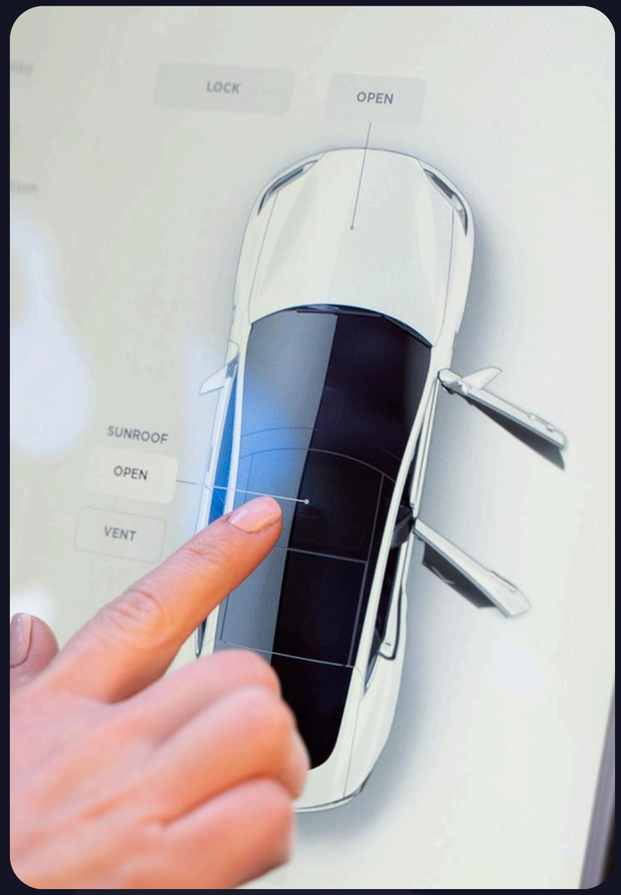
Introduction

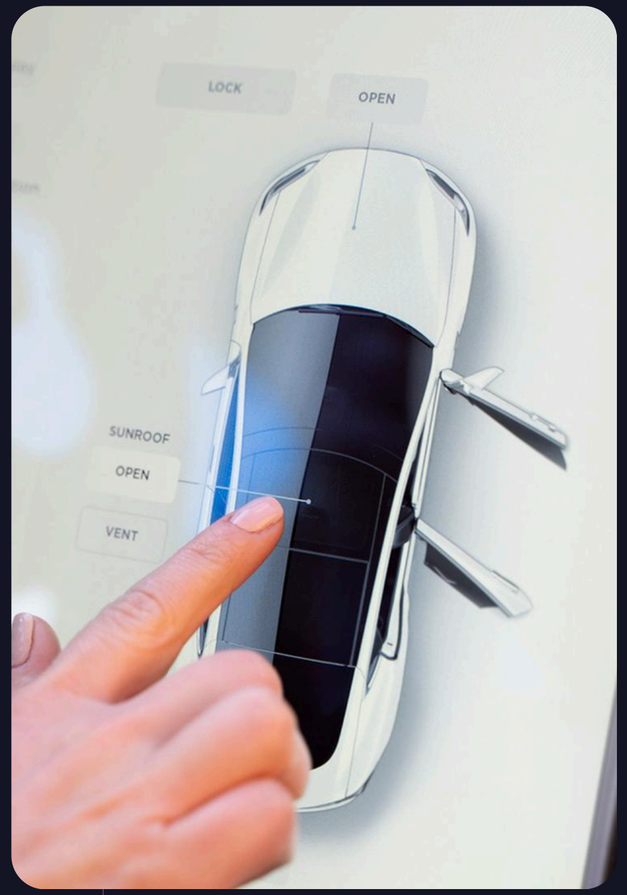
Background

Some History

- Experiments have been started on automating cars since 1920.
- First experimental vehicle took place in 1950.
- The first self-sufficient and truly autonomous car appeared in 1980.



Background



LET'S TALK ABOUT FUTURE

- Waymo -- Zoox -- Nvidia
- They are really good in what they are doing
- maintain trust in the safety of autonomous vehicles,

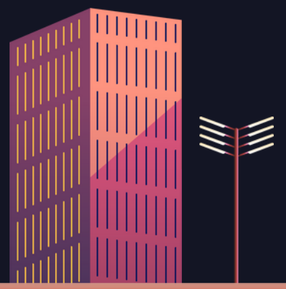
Problem & Solutions

Model In the Cloud

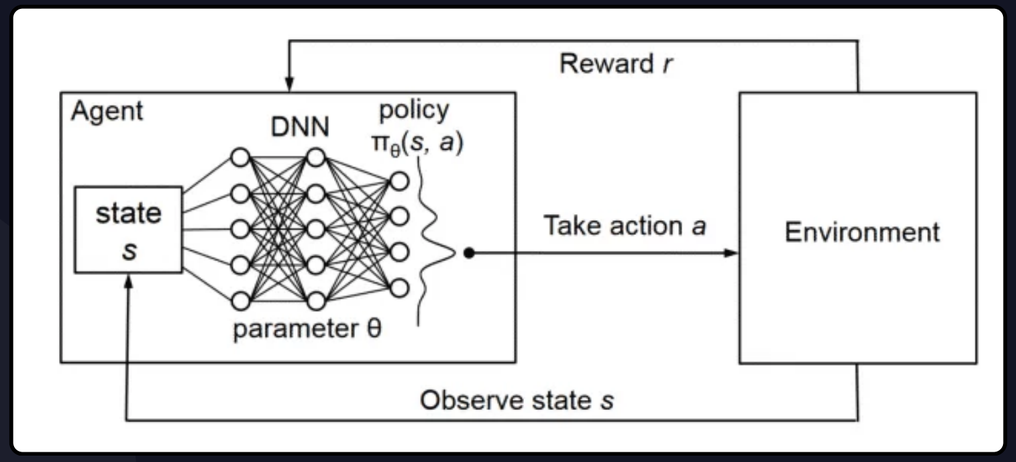
5G connection

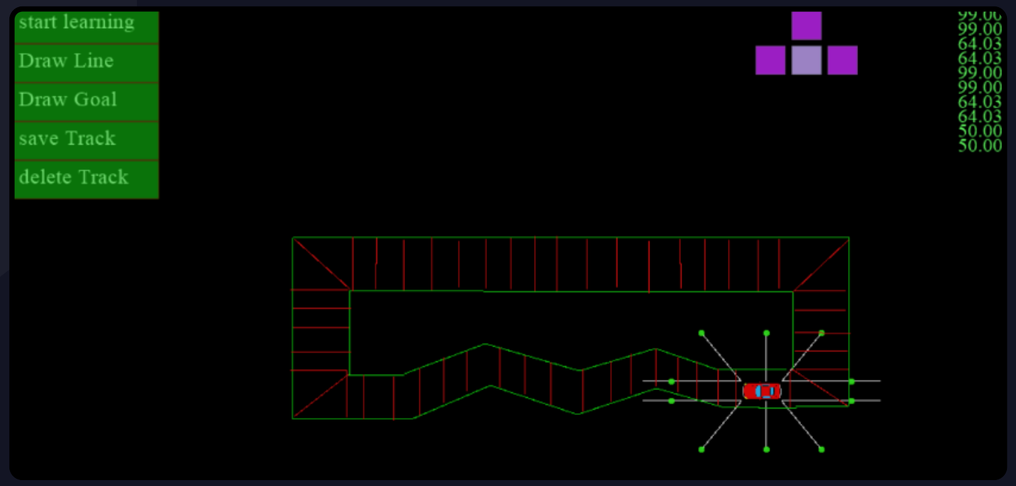
Production Model Size

DDQN



DDQN In Depth





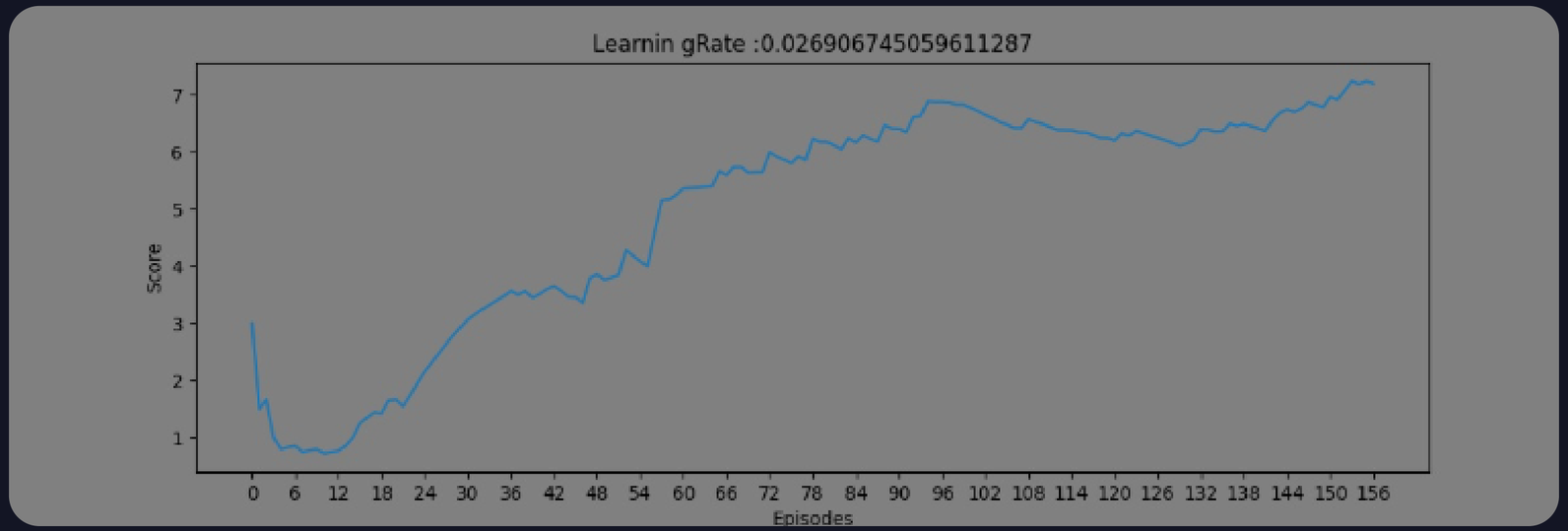
Deep Reinforcement Learning & DDQN

Deep Reinforcement Learning (DRL) combines deep learning and reinforcement learning to train neural networks for optimal decision-making

Environments

Creating robust simulation environments for autonomous vehicle AI using Pyglet framework.

Results & Discussions



Scalability **Efficiency** **Precision**

THANK YOU FOR YOU ATTENTION