Use case of Data Science in traffic signaling system:

Pros:

* Help full in integrating future vehicles with the real-time traffic system
* Support in tracking suspected or VIPs vehicles
* Reduce traffic jams & vehicles congestions on the road
* It helps in saving gas and increase car efficiencies
* Easy to monitor traffics and helps in reducing accidents due to over speed & weather conditions

Cons:

* Difficult to integrate real-time traffic system with old vehicles
* It can be hacked and used by terrorist organizations
* What happens when we have an internet outage
* In the future, Peoples are going to use hybrid or electric cars
* Need highly skilled workforce to maintain and support the system

Conclusion:

* Data science makes real-time traffic system more robust, can include old vehicles into the system
* Data Science helps in handling traffic effectively while giving passage to VIPs; with added security, we make it difficult to get hacked
* Data Science helps in managing the traffic effectively, and by using serverless and cloud services, we can make the system less prone to any server failures
* An efficient traffic routing system reduces unnecessary stops for vehicles; it increases its efficiency
* Will reduce accidents and reduces dependency on the onsite traffic monitor workforces