

# UNIT 7: Self-Driving Vehicles

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## VOCABULARY



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Term	Description	Image
<b>Autonomous vehicle (AV)</b>	An autonomous vehicle (AV) is a car equipped with technology that allows it to navigate and operate without human intervention by using sensors, cameras, and artificial intelligence to perceive its environment and make driving decisions.	X
<b>Self-driving vehicle (SDV)</b>	A self-driving vehicle (SDV) is a type of autonomous vehicle that uses a combination of sensors, cameras, radar, and artificial intelligence to drive itself without human input, capable of detecting its surroundings and making real-time decisions.	X
<b>Radar</b>	Radar (Radio Detection and Ranging) is a sensor technology used in autonomous vehicles to detect objects and measure their distance and speed by emitting radio waves and analyzing the signals that bounce back from surrounding objects.	
<b>Lidar</b>	Lidar (Light Detection and Ranging) is a remote sensing technology that uses laser beams to create high-resolution 3D maps of the environment around an autonomous vehicle, helping it to detect and avoid obstacles with precision.	
<b>Sonar</b>	Sonar (Sound Navigation and Ranging) is a technology that uses sound waves to detect and locate objects underwater or in the vicinity of autonomous vehicles, often used to provide additional data for navigation and obstacle avoidance.	