

LESSON 1

Welcome to SDC Fundamentals: Featuring Apollo

Identify the key parts of self-driving cars, and get to know the Apollo team and architecture.

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The Apollo logo is displayed in white on a black rectangular background. The word "apollo" is written in a lowercase, sans-serif font. The letter 'a' is a simple circle. The 'p' has a long, curved descender that loops around the 's'. The 's' is a continuous, flowing shape. The 'l' is a simple vertical bar. The 'o' is a simple circle.

LESSON 2

HD Maps

High-definition maps underpin almost every other part of the software stack. Learn how these maps work!

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LESSON 3

Localization

Learn how the vehicle localizes itself with single-digit-centimeter-level accuracy.

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LESSON 4

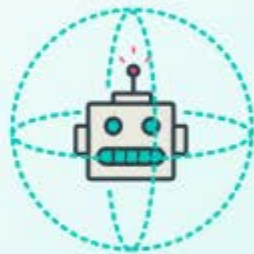
Perception

Identify different perception tasks such as classification, detection, and segmentation. Also, learn about convolutional neural networks, which are critical to perception.

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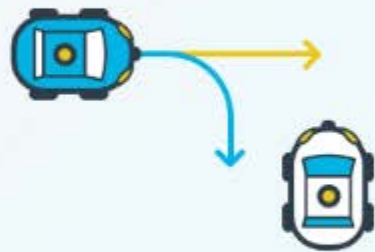
Prediction

Study different ways to predict how other vehicles or pedestrians might interact with Apollo self-driving cars.

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LESSON 6

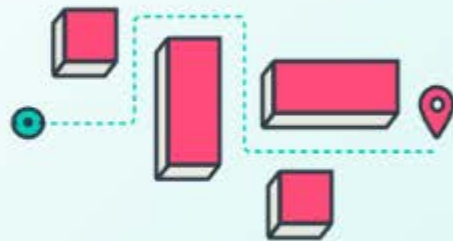
Planning

Identify several different approaches Apollo uses to develop trajectories for autonomous vehicles.

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LESSON 7

Control

Understand how to use steering, throttle, and brake to execute our planned trajectory and master different types of controllers in Apollo.

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LESSON 8

Congratulations

Congratulations on completing the course! Here, you'll receive some suggestions for future learning to pursue a self-driving car engineering career.

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