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What is Machine Learning?

In this lesson, the what how and why of machine learning (ML) is introduced. The theory is outlined and practical examples and applications are given.

ML

WHY USE MACHINE LEARNING?

Your recently viewed items and featured recommendations

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Micro USB HUB Adapter with Power, Quick Charging OTG Host Cable Card Adapter for...

★★★★★ 276

\$1.99

Jabra Speed 510 Wireless Bluetooth Speaker for Smartphone and Mobile Phone (3.5, Retail...

★★★★★ 443

\$11.14

27 2" Clamp Mount Jaws Clip Arm Neck Tripod Gooseneck Mount Holder Adapter Screen for...

★★★★★ 14

\$17.99

2 Pack SNES Retro USB Super Nintendo Controller Gamepad Joystick, USB PC Super Classic...

★★★★★ 14

\$16.99

Jabra Speed 410 USB Speakerphone for Skype and other VoIP calls (3.5, Retail...

★★★★★ 144

\$77.72

ANEX1 SNES Retro USB Super Nintendo Controller Gamepad Joystick, USB PC...

★★★★★ 124

\$16.99

Wemo Light Switch, (Wi-Fi) enabled, Works with Amazon Alexa

★★★★★ 4,487

\$48.18

AmazonBasics 3.5mm Male to Male Stereo Audio Aux Cable - 4 Feet (1.2 Meter)

★★★★★ 3,012

\$4.99

YCS Basics 6 inch USB Micro male to Female OTG extension cable

★★★★★ 358

\$6.59

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What is Machine Learning?

In this lesson, the what how and why of machine learning (ML) is introduced. The theory is outlined and practical examples and applications are given.

TYPES OF MACHINE LEARNING:

Supervised ML

Unsupervised ML

The diagram illustrates the types of Machine Learning. At the top center is a 3D cube with 'ML' on its face. Below it, the text 'TYPES OF MACHINE LEARNING:' is displayed. To the left of this text is a decision tree diagram, and to the right is a neural network diagram. Below the text, 'Supervised ML' and 'Unsupervised ML' are listed. A video player interface is visible at the bottom of the slide, showing a progress bar and a timestamp of 06:29.

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In this lesson, the five step process of integrating machine learning (ML) into an app project is discussed, i.e. data, preparation, training, testing and improvement.



Next >>



Study Reminders



Study Notes



Essential Software - Lesson Summary



Module Progress: 86%

- Models are exposed to lots of information, for example hundreds of different pictures of TV remote controls. The model "learns" to classify objects that have a certain size, shape and buttons.
- ML can be applied in many ways: doctors can use it to diagnose diseases; it can be used to match people for relationships, by analysing their habits and patterns; it can be used to analyse costly manufacturing procedures, for example will this engine work or will a certain part fail?
- A model may be shown many pictures of different cats and dogs, before it is able to identify generic features and classify pictures correctly.
- The number one reason for using ML in an app, is it makes it easy to personalise the app for the user. You can add features that pay attention to what the user does and make suggestions and predictions based on that.
- On Amazon.com, suggestions and recommendations appear for users, based on their shopping habits and those of other buyers.
- There are five main steps for integrating machine learning (ML) into a project: (1) Get data (2) Prepare data (3) Train the model (4) Test the model (5) Improve the model.
- Anaconda enables a user-friendly Python programming environment for ML and includes multiple libraries, making it highly convenient.
- Atom IDE provides smarter context-aware auto-completion, outline view and go-to definition ability.

[Study Reminders](#)[Study Notes](#)



MODULE 1

✓ Essential Software

Complete ^

In this module you'll learn about essential software for machine learning and it covers topics such as What is Machine Learning?; Machine Learning Basics; Installing Anaconda; Atom and Plugins.



Essential Software - Learning Outcomes

Topic Completed



Introduction To The Course

Topic Completed



What Is Machine Learning?

Topic Completed



Machine Learning Basics

Topic Completed



Installing Anaconda

Topic Completed



Atom And Plugins

Topic Completed



Essential Software - Lesson Summary

Topic Completed