Goskills

TensorFlow Quickstart

GoSkills online course syllabus

Skill level	**Lessons**	**Pre-requisites**
Beginner	16	No prior experience needed
Video duration	**Estimated study time**	**Instructor**
38m	38m 39s	Greg Damico

Introduction

1 Dive into AI with TensorFlow

TensorFlow is a high-powered data science tool that's used to build sophisticated models, making predictions for regression, classification, NLP, and other types of ML endeavors.

Introduction to TensorFlow

2 Get started with TensorFlow

TensorFlow is a powerful tool for machine learning that enables developers to create complex models with ease.

3 Understand TensorFlow's core concepts

Grasping the basic building blocks of TensorFlow is crucial for any machine learning project.

4 TensorFlow vs. other frameworks

Understanding how TensorFlow compares to other machine learning frameworks can help you choose the right tool for your projects.

Building Blocks of TensorFlow

5 Define and manipulate tensors

Tensors are the fundamental data structures in TensorFlow and understanding them is essential.

6 Utilize TensorFlow operations

Operations are what make TensorFlow powerful for machine learning tasks.

7 Utilizing variables and placeholders

Variables and placeholders are key to feeding data into your TensorFlow models.

Implement Machine Learning Models

8 Build your first machine learning model

Building a machine learning model with TensorFlow is an exciting step.

9 Train and evaluate your model

Training and evaluating are critical steps in the machine learning workflow.

10 Debug your models

Debugging is key to improving your machine learning model's performance.

11 Save and restore models

Learning how to save and restore TensorFlow models is crucial for long-term projects.

Build a Neural Network and Apply Advanced Techniques

12 Implement a neural network

Neural networks are at the heart of deep learning applications.

13 Explore advanced optimization techniques

Advanced optimization techniques can significantly improve your model's training speed and performance.

14 Implement batch normalization

Batch normalization is a technique to improve training stability and performance.

15 Use Dropout for regularization

Dropout is a regularization technique to prevent overfitting in neural networks.

Conclusion

16 Start building with TensorFlow

Thanks for watching!

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