

TensorFlow Mastery

Duration: 5 Days

Target Audience:

- Data Analyst
- Business Analysts
- Data Scientist

Course Objectives:

Mastering Advanced TensorFlow Techniques:

- Build advanced models using Functional APIs
- Customize models and layers for specific requirements

Custom and Distributed Training:

- Implement custom training procedures
- Learn distributed training techniques

Advanced Computer Vision with TensorFlow:

- Explore object detection techniques
- Dive into image segmentation methods

Generative Deep Learning Exploration:

- Apply Neural Style Transfer for artistic image generation
- Master Autoencoders and Variational Autoencoders for unsupervised learning and creative generation

Course Outlines:

Enhancing TensorFlow Model Capabilities

- Build Functional APIs with TensorFlow
- Build Custom Models with TensorFlow
- Build Custom Layers with TensorFlow
- Build Custom Loss Functions with TensorFlow
- Custom Callbacks with TensorFlow

Custom and Distributed Training with TensorFlow

- Differentiation and Gradients
- Custom Training
- Graph Mode
- Distributed Training

Advanced Computer Vision with TensorFlow

- Introduction to Computer Vision
- Object Detection
- Image Segmentation
- Visualization & Interpretability

Generative Deep Learning with TensorFlow

- Neural Style Transfer
- AutoEncoders
- Variational AutoEncoders
- Generative Adversarial Network

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