Course Name	TensorFlow Mastery
Course Duration	5 Day (40 hours)
Target Audience	Data Analyst, Business Analysts, Data Scientist
Course Outcomes	**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

Module No.	Module
1	**Enhancing TensorFlow Model Capabilities**
1.1	Build Functional APIs with TensorFlow
1.2	Build Custom Models with TensorFlow
1.3	Build Custom Layers with TensorFlow
1.4	Build Custom Loss Functions with TensorFlow
1.5	Custom Callbacks with TensorFlow
2	**Custom and Distributed Training with TensorFlow**
2.1	Differentiation and Gradients
2.2	Custom Training
2.3	Graph Mode
2.4	Distributed Training
3	**Advanced Computer Vision with TensorFlow**
3.1	Introduction to Computer Vision
3.2	Object Detection
3.3	Image Segmentation
3.4	Visualization & Interpretability
4	**Generative Deep Learning with TensorFlow**
4.1	Neural Style Transfer
4.2	AutoEncoders
4.3	Variational AutoEncoders
4.4	Generative Adversarial Network