KOENIG
step forward

KOENIG SOLUTIONS · COURSE OUTLINE

Model Deployment Using TensorFlow

Learn to deploy TensorFlow machine learning models to browsers, mobile devices, data pipelines and advanced production scenarios.

5 Days	4	16
40 HOURS	MODULES	TOPICS

COURSE OVERVIEW

This course covers deploying machine learning models in the browser with TensorFlow.js, including image classification, model conversion to JSON, and transfer learning. It then moves to device-based deployment with TensorFlow Lite on Android and iOS. The course addresses building data pipelines using TensorFlow Data Services, including splits, slices, and export into training pipelines, along with model performance. It closes with advanced deployment scenarios using TensorFlow Extended, TensorFlow Hub, TensorBoard, and Federated Learning.

WHO THIS COURSE IS FOR

Data Analyst **Business Analysts** **Data Scientist**

LEARNING OBJECTIVES

- Build and deploy machine learning models in the browser using TensorFlow.js
- Develop mobile applications with TensorFlow Lite for running machine learning models on devices
- Utilize TensorFlow Data Services to streamline data pipelines and enhance data processing capabilities
- Explore advanced deployment scenarios with TensorFlow Extended, TensorFlow Hub, TensorBoard, and Federated Learning

COURSE SYLLABUS

4 Modules, 16 Topics

01

Browser-based Models with TensorFlow.js

TOPICS

Introduction to TensorFlow.js · Image Classification In the Browser · Converting Models to JSON Format · Transfer Learning with Pre-Trained Models

02

Device-based Models with TensorFlow Lite

TOPICS

Device-based models with TensorFlow Lite · Running a TF model in an Android App · Building the TensorFlow model on IOS · TensorFlow Lite on devices

03

Data Pipelines with TensorFlow Data Services

TOPICS

- Data Pipelines with TensorFlow Data Services
- Splits and Slices API for Datasets in TF
- Exporting Your Data into the Training Pipeline
- Model Performance

04

Advanced Deployment Scenarios with TensorFlow

TOPICS

- TensorFlow Extended
- Sharing pre-trained models with TensorFlow Hub
- **TensorBoard:** tools for model training
- Federated Learning

WHAT IS INCLUDED

Everything You Need to Succeed

- Koenig course material for every module
- Delivery by certified instructors and subject matter experts
- Hands-on exercises throughout the course
- Course completion certificate from Koenig

ABOUT KOENIG

Who We Are

Established in 1993, Koenig Solutions is a globally recognised training provider with 35+ technology partnerships, 5,000+ training programmes and a network of certified instructors and subject matter experts, supporting individuals and enterprise teams worldwide.

FLEXIBLE DELIVERY

Learn the Way That Suits You

Classroom Training | Live Online Classes (ILO) | Fly-Me-A-Trainer (FMAT) | Flexi (Self-Paced) | 1-on-1 Training

Ready to Get Started?

Talk to a learning advisor about schedules, group training and customised delivery.

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