

## Model Deployment using TensorFlow

**Duration: 5 Days**

**Target Audience:**

- Data Analyst
- Business Analysts
- Data Scientist

**Course 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 Outlines:**

### Browser-based Models with TensorFlow.js

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

### Device-based Models with TensorFlow Lite

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

### Data Pipelines with TensorFlow Data Services

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

### Advanced Deployment Scenarios with TensorFlow

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

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