



IT244D: DataRobot Training

Training Description:

This DataRobot training course is designed to provide participants with a comprehensive understanding of the DataRobot AI platform and its practical application in automated machine learning (AutoML). As organizations increasingly rely on data-driven decision-making, the ability to efficiently build, evaluate and deploy predictive models has become essential for driving business value. Participants will gain hands-on experience navigating the DataRobot platform, understanding key AutoML concepts and leveraging automation to accelerate the modeling process while maintaining accuracy and interpretability.

This intensive training course covers the end-to-end workflow of DataRobot, including data preparation, feature engineering, model building, performance evaluation, deployment and monitoring. Participants will explore advanced features such as time series forecasting, custom Python/R recipes, model insights and integration with business decision-making processes. Emphasis will be placed on practical exercises, real-world case studies and interactive workshops that translate machine learning concepts into actionable business solutions. Ethical AI use, governance and best practices for model management are also highlighted to ensure responsible AI adoption.

By the end of this training course, participants will be able to build and deploy predictive models confidently, interpret results for business impact, monitor model performance and implement strategies for continuous improvement. This training equips data analysts, data scientists, business intelligence professionals and decision-makers with the practical skills and confidence needed to leverage DataRobot for effective AI-driven decision-making, ensuring measurable value in their organizations.

Training Objectives:

By the end of the training, participants will be able to:

- ✓ Navigate the DataRobot platform and understand AutoML workflows
- ✓ Prepare and clean datasets for machine learning projects
- ✓ Apply feature engineering and selection techniques effectively
- ✓ Build, compare, and evaluate predictive models automatically
- ✓ Interpret model performance metrics and feature impact
- ✓ Deploy models for real-time or batch predictions
- ✓ Monitor deployed models and manage their lifecycle
- ✓ Apply best practices for AI governance and responsible AI use
- ✓ Collaborate on AI projects and integrate models with business processes
- ✓ Develop actionable insights from model outputs to support decision-making

Training Designed for:

This training course is intended for data analysts, data scientists and business analysts who want to leverage automated machine learning to improve predictive modeling outcomes. It is ideal for IT professionals, AI engineers and machine learning specialists seeking hands-on experience with DataRobot. Business intelligence managers, decision-makers and product managers will benefit from understanding model insights, deployment strategies, and actionable AI-driven recommendations.

Training Requirement:

"Hands on practical sessions, equipment and software will be applied during the course if required and as per the client's request."

Contents can be adapted to your specific wishes. It is therefore possible to focus on specific modules of the training course as per client's learning needs and objectives. Further, it should be forwarded to us a month prior to the course dates.

Training Program:

DAY ONE:

INTRODUCTION TO AUTOMATED MACHINE LEARNING AND DATAROBOT

❖ Understanding AI, AutoML, and Platform Fundamentals

- Overview of AI, machine learning and AutoML concepts
- Introduction to DataRobot platform and interface
- Types of projects: classification, regression and time series
- Project setup, data import and best practices
- Workshop: Creating your first DataRobot project

DAY TWO:

DATA PREPARATION AND FEATURE ENGINEERING

❖ Preparing High-Quality Data for Reliable Models

- Dataset structure, variable types and quality assessment
- Handling missing data, outliers and anomalies
- Feature selection and automated feature engineering
- Custom transformations and calculated features
- Workshop: Preparing datasets and generating engineered features
- Case study: Improving model performance through data preparation

DAY THREE:

MODEL BUILDING, SELECTION, AND EVALUATION

❖ Creating, Comparing, and Selecting the Best Models

- Overview of machine learning algorithms in DataRobot
- Automatic model building and leaderboard analysis
- Evaluating models using metrics like RMSE, AUC precision/recall
- Interpreting model insights and feature impact
- **Workshop:** Comparing multiple models and selecting optimal models
- **Case study:** Model selection for a real business problem

DAY FOUR:

UNDERWRITING AND PRICING FIRE RISKS

❖ Translating Risk into Insurance Decisions

- Fire risk underwriting guidelines
- Exposure analysis and accumulation risks
- Rating factors and premium calculation

- Deductibles, limits and special clauses
- Reinsurance considerations for large fire exposures
- Preparing underwriting reports and recommendations

DAY FIVE:

MODEL DEPLOYMENT AND MONITORING

- ❖ **Operationalizing AI Models for Real-World Impact**
 - Deployment options: batch, API, or real-time predictions
 - Scoring, prediction outputs, and integration with business workflows
 - Monitoring model performance and detecting drift
 - Model retraining and lifecycle management
 - **Workshop:** Deploying a model and monitoring predictions
 - **Exercise:** Designing a model monitoring and maintenance plan
- ❖ Course Conclusion
- ❖ POST-ASSESSMENT and EVALUATION

Training Methodology:

This interactive training course includes the following training methodologies as a percentage of the total tuition hours:

- 30% Lectures, Concepts, Role Play
- 70% Workshops & Work Presentations, Techniques, Based on Case Studies & Practical Exercises, Gamification, Software & General Discussions
- Pre and Post Test

Training Certificate(s):

CMCT Internationally recognized certificate(s) will be issued to each participant who completed the course.

Training Fees:

TBA as per the course location - This rate includes participant's manual, hand-outs, buffet lunch, coffee/tea on arrival, morning & afternoon of each day.

Note: The 5% VAT (Value Added Tax), will be effective starting 01st of January 2018 as per the new regulation from the UAE Government. The VAT applies for all quotation both for local and abroad.

Training Timings:

Daily Timings:

07:45 - 08:00	Morning Coffee / Tea
08:00 - 10:00	First Session
10:00 - 10:20	Recess (Coffee/Tea/Snacks)
10:20 - 12:20	Second Session
12:20 - 13:00	Recess (Prayer Break & Lunch)
13:00 - 14:00	Last Session

For training registrations or in-house enquiries, please contact:

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