

YourCloudGroup

AI Model Manager

Hands-On AI Model Training Lab

Saturday Workshop — 4 Hours — \$149

Build, Train, and Deploy Real AI Models

No coding required. Bring your laptop and your data.

EVERY SATURDAY — 9:00 AM to 1:00 PM

What You'll Build: Neural networks, random forests, XGBoost models, and automated prediction pipelines.

What You'll Learn: Data prep, model selection, evaluation metrics, API automation, scheduled predictions.

Prerequisites: Laptop with a modern browser. No programming experience required.

Lab Description

Build Real AI Models in 4 Hours — No Coding Required

Join us for a hands-on Saturday workshop where you'll build, train, evaluate, and deploy AI models using the YourCloudGroup AI Model Manager — a professional-grade platform used by businesses to make data-driven predictions.

This isn't a lecture. You'll work with real datasets, create real models, and walk away with practical skills you can apply immediately. Every participant gets temporary access to a live cloud server with the full platform pre-configured.

What You'll Build

- A classification model that predicts categories (e.g., customer churn, risk levels, adoption speed)
- A regression model that predicts numeric values (e.g., prices, revenue, scores)
- A 12-model tournament that automatically finds the best algorithm for your data
- An automated prediction pipeline using the API

What You'll Learn

- How to prepare CSV data for AI Model Training (what to keep, what to drop, and why)
- The difference between 6 model types — neural networks, random forests, XGBoost, and linear models
- How to read evaluation metrics: accuracy, confusion matrices, R^2 , MAE, confidence scores
- How to compare models and pick the best one for your data
- How to set up scheduled, automated predictions that run without human intervention
- How to call the prediction API from Windows PowerShell or Linux command line

Who This Is For

Business analysts, IT professionals, data enthusiasts, entrepreneurs, and anyone curious about AI Model Training — no prior experience required.

What's Included

- 4 hours of hands-on instruction and lab time
- Temporary access to a live YourCloudGroup AI Model Manager server (7-day server rental included with each lab seat)
- Sample datasets (PetFinder adoption prediction, credit card fraud detection)
- Printed quick-reference card
- Certificate of completion

Prerequisites

Bring a laptop with a modern web browser. Basic comfort with spreadsheets (CSV files). No programming, statistics, or prior experience required.

Detailed Agenda

HOURL 1 — Foundations & Your First Model (9:00 – 10:00 AM)

9:00 – 9:15 | *Welcome & Platform Tour (15 min)*

- Introductions and lab objectives
- Log in to the platform — each participant gets their own credentials
- Dashboard walkthrough: file counts, model stats, recent activity
- Navigation tour: all 13 menu items explained
- Quick overview: what AI model training means, what a model is, what training is

9:15 – 9:25 | *Understanding Your Data (10 min)*

- Open the PetFinder dataset — examine the columns
- Classification vs regression: how the system auto-detects task type
- Which columns to drop and why (IDs, names, free text = noise)
- Target column: AdoptionSpeed (0 = same day, 4 = never adopted)

9:25 – 9:45 | *Build Your First Model (20 min)*

- Hands-on: Create Model → upload CSV → select target
- Use Data Preview to inspect rows, types, missing values
- Drop columns: Name, RescuerID, Description, PetID
- Select Basic NN, 20 epochs → Create Model
- While training: discuss epochs, overfitting, the loading overlay
- Review training accuracy result

9:45 – 10:00 | *Make Your First Prediction (15 min)*

- Hands-on: Predict → select model → upload prediction file
- View prediction detail page: distribution chart, results table
- Toggle “Show Key Columns Only”
- Discuss: Predicted_AdoptionSpeed and confidence columns
- Download prediction CSV, open in spreadsheet

HOOR 2 — Evaluation & Model Selection (10:00 – 11:00 AM)

10:00 – 10:25 | *How Good Is Your Model? (25 min)*

- Hands-on: Compare → upload target file with actual values
- Walk through every metric on the evaluation page:
 - Exact Accuracy: 45.5% — better than random 20%
 - Within ± 1 : 75.8% — three-quarters within one class
 - MAE: 0.88 — less than one class off on average
 - Confidence Gap: model knows when it's guessing
 - Per-Class Accuracy: which classes the model handles well
 - Confusion Matrix: reading the green diagonal
 - Row-by-Row: green = exact, yellow = close, red = miss
- Discuss: training accuracy vs real-world accuracy

10:25 – 10:35 | *Build a Second Model (10 min)*

- Hands-on: Create Model → same data → Random Forest
- Compare training speed: RF vs Neural Network
- Run prediction → Compare → compare metrics side by side
- Discuss: which model is better and why

10:35 – 10:55 | *Auto Build Tournament (20 min)*

- Hands-on: Auto Build → upload all three files → columns to drop
- Start the 12-model tournament
- While waiting: instructor explains the tournament plan
 - 9 neural networks: Basic/Deep/Wide × 10/20/30 epochs
 - 3 ML models: Random Forest, XGBoost, Logistic
 - Winner selection: accuracy → within ± 1 → lowest MAE
- When complete: Compare page → review all 12 models
- Identify winner (_best suffix), discuss why it won
- Demonstrate Bulk Delete: clean up the 11 losers

10:55 – 11:00 | *Break (5 min)*

HOURL 3 — Advanced Features & Automation (11:00 AM – 12:00 PM)

11:00 – 11:10 | Model Management (10 min)

- Schema inspection: view full model configuration
- Export a model: download zip (model + scaler + encoder + metadata)
- Import: upload zip back — new UUID, same config
- Retrain: new model from winner's config with “new” data
- View parent-child lineage on prediction detail page

11:10 – 11:25 | Regression Model (15 min)

- Switch to a regression dataset (house prices or credit card amounts)
- Hands-on: Create Model → numeric target → Random Forest
- System auto-detects regression, no epochs field
- Run prediction → Compare with targets
- Walk through regression metrics: R^2 , MAE, RMSE, MAPE, Within 10%/20%
- Error percentiles and worst predictions table
- Discuss: what makes a good R^2 ? When is MAE acceptable?

11:25 – 11:45 | API & Automation (20 min)

- Profile page: set API secret key (email → link → key flow)
- Email preferences: toggle notification categories on/off
- Open a terminal (PowerShell on Windows, Terminal on Mac)
- Hands-on API calls:
 - List models: see all models via API
 - Validate: check a CSV before predicting
 - Predict: upload and predict via command line
 - Download: save results to local file
- Discuss: automated pipelines, scheduled tasks, system integration

11:45 – 12:00 | Scheduled Predictions (15 min)

- Hands-on: Schedules → create a daily prediction job
- Select model, choose file, set frequency, enter email
- Click Run Now to trigger immediately — watch the result
- Discuss Watch Folder mode: SFTP, file sync, data pipelines
- Discuss client-side: Windows Task Scheduler, Linux cron

HOOR 4 — Your Data & Wrap-Up (12:00 – 1:00 PM)

12:00 – 12:40 | Bring Your Own Data (40 min)

- Participants upload their own CSV datasets
- Instructor circulates to help with:
 - Identifying the right target column
 - Choosing which columns to drop
 - Selecting the best model type
 - Interpreting evaluation results
- Participants run Auto Build tournaments on their own data
- Group discussion: findings, surprises, lessons learned

12:40 – 12:50 | Administration & Documentation (10 min)

- Profile page: password, API key, email preferences
- Admin: adding users, invitation emails, user list
- Files page: 4 storage areas
- Documentation: User Guide, Use Cases & Dataset Guide, Demo Lab

12:50 – 1:00 | Wrap-Up & Next Steps (10 min)

- Recap of everything built today
- Key takeaways: Random Forest first, Compare not Evaluate, drop IDs
- Resources: User Guide, Use Cases guide (16 industries, 100+ examples)
- Q&A
- Certificates distributed
- YourCloudGroup hosting plans for production deployment

Timing Summary

Time	Duration	Topic	Type
9:00	15 min	Welcome & Platform Tour	Instructor-led
9:15	10 min	Understanding Your Data	Discussion
9:25	20 min	Build Your First Model	Hands-on
9:45	15 min	Make Your First Prediction	Hands-on
10:00	25 min	Evaluation Metrics Deep Dive	Hands-on + Discussion
10:25	10 min	Build a Second Model	Hands-on
10:35	20 min	Auto Build Tournament	Hands-on
10:55	5 min	Break	—
11:00	10 min	Model Management	Hands-on
11:10	15 min	Regression Model	Hands-on
11:25	20 min	API & Automation	Hands-on
11:45	15 min	Scheduled Predictions	Hands-on
12:00	40 min	Bring Your Own Data	Hands-on + Coaching
12:40	10 min	Administration & Docs	Instructor-led
12:50	10 min	Wrap-Up, Q&A, Certificates	Discussion

Total hands-on time: approximately 2 hours 45 minutes

Total instruction / discussion: approximately 1 hour 10 minutes

REGISTER NOW

Every Saturday | 9:00 AM – 1:00 PM | \$149

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yourcloudgroup.com/labs