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The Python Framework That's Quietly Revolutionizing AI Development



Rizqi Mulki

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While everyone argues about TensorFlow vs PyTorch, this framework is silently taking over production AI systems



The AI development world has been locked in a fierce battle for years. TensorFlow versus PyTorch. Research teams picking sides. Companies betting their entire AI strategies on one framework or the other. Meanwhile, a relatively unknown Python framework has been quietly solving the problems that both giants ignore.

It's not about training models faster or building more accurate neural networks. It's about the 90% of AI work that happens after the model is trained — the deployment, monitoring, scaling, and maintenance that determines whether AI projects succeed or fail in the real world.

The framework is **MLflow**. And while it may not grab headlines like ChatGPT or generate the excitement of new transformer architectures, it's become the

invisible infrastructure powering AI in production at companies from Netflix to Shopify to Microsoft.

Here's why this quiet revolution matters more than the flashy framework wars.

The AI Production Crisis Nobody Talks About

The Shocking Statistics:

- 87% of machine learning projects never make it to production
- Companies spend \$10 billion annually on AI projects that fail
- Average time from prototype to production: 18 months
- Only 22% of companies have successfully deployed AI at scale

The problem isn't building models — it's everything else. Modern AI development resembles a house built on quicksand: brilliant research and powerful models sitting on top of fragmented, unreliable infrastructure.

The Real AI Workflow Nightmare:

```
# What AI development actually looks like (the ugly truth)
import tensorflow as tf
import pandas as pd
import pickle
import json
import os
from datetime import datetime
# Model training (the easy part)
model = tf.keras.models.Sequential([...])
model.compile(optimizer='adam', loss='categorical_crossentropy')
model.fit(X_train, y_train, epochs=10)
```

```

# The nightmare begins (production deployment)
# Where do we save the model?
model.save('/some/random/path/model_v1_FINAL.h5')
# How do we track what data was used?
metadata = {
    'training_data': '/data/batch_47.csv',      # Which batch was this again?
    'features': ['feature1', 'feature2'],        # Did feature3 get added later?
    'timestamp': str(datetime.now()),           # Time zone? What time zone?
    'accuracy': 0.847,                          # On which dataset?
    'developer': 'sarah',                       # Sarah left the company
    'notes': 'This one works better'           # Helpful.
}
# Save metadata somewhere
with open('model_metadata.json', 'w') as f:
    json.dump(metadata, f)
# Now somehow deploy this to production...
# (6 months and 3 different deployment attempts later...)

```

This chaos is why 87% of AI projects fail. It's not because the models don't work — it's because no one can reliably reproduce, deploy, or maintain them.

Enter MLflow: The Framework That Solves Everything Else

MLflow doesn't train better models. It doesn't make neural networks faster. Instead, it solves the production problems that kill AI projects:

- **Experiment Tracking:** Every model, every parameter, every result, automatically logged
- **Model Packaging:** Consistent, reproducible model deployment across any platform
- **Model Registry:** Centralized hub for managing model versions and lifecycle
- **Model Serving:** One-click deployment to production endpoints

The Same Workflow with MLflow:

```

import mlflow
import mlflow.tensorflow
import pandas as pd
# MLflow transforms the chaos into order
mlflow.set_experiment("customer_churn_prediction")
with mlflow.start_run():
    # All parameters automatically tracked
    mlflow.log_param("epochs", 10)
    mlflow.log_param("batch_size", 32)
    mlflow.log_param("optimizer", "adam")

    # Model training (same as before)
    model = tf.keras.models.Sequential([...])
    model.compile(optimizer='adam', loss='categorical_crossentropy')

    history = model.fit(X_train, y_train, epochs=10, validation_split=0.2)

    # All metrics automatically logged
    mlflow.log_metric("accuracy", history.history['accuracy'][-1])
    mlflow.log_metric("val_accuracy", history.history['val_accuracy'][-1])

    # Model automatically saved with all metadata
    mlflow.tensorflow.log_model(model, "model")

    # Artifacts (plots, data samples) automatically stored
    mlflow.log_artifact("feature_importance.png")

print(f"Model logged with run_id: {mlflow.active_run().info.run_id}")

```

The Result: Complete experiment reproducibility, automatic model versioning, and one-line deployment to production.

The Netflix Revolution: From Chaos to Order

Netflix's recommendation system serves 230 million users with personalized content. Behind the scenes, they run thousands of machine learning experiments monthly. Before MLflow, this was a nightmare.

Netflix's Pre-MLflow Reality:

- Models scattered across hundreds of servers
- Experiment results in countless spreadsheets and Slack messages
- 6+ months to deploy new recommendation algorithms
- Frequent production failures due to model versioning confusion
- Data scientists spending 70% of time on infrastructure instead of modeling

The MLflow Transformation:

```
# Netflix's MLflow-powered recommendation pipeline
import mlflow
from mlflow.models.signature import infer_signature
# Experiment tracking for A/B testing recommendations
mlflow.set_experiment("homepage_recommendations_q4_2024")
with mlflow.start_run(run_name=f"collaborative_filtering_v{model_version}"):
    # Track all hyperparameters
    mlflow.log_params({
        "num_factors": 100,
        "regularization": 0.01,
        "learning_rate": 0.001,
        "algorithm": "alternating_least_squares"
    })

    # Train recommendation model
    model = train_collaborative_filtering(user_interactions, params)

    # Evaluate and log metrics
    precision, recall, f1 = evaluate_model(model, test_data)
    mlflow.log_metrics({
        "precision@10": precision,
        "recall@10": recall,
        "f1_score": f1,
        "training_time": training_duration
    })

    # Log model with signature for automatic validation
    signature = infer_signature(sample_input, model_predictions)
    mlflow.sklearn.log_model(
```

```
    model,
    "recommendation_model",
    signature=signature
)
# Deploy to production with single command
# mlflow models serve -m "models:/homepage_recommendations/Production" -p 5000
```

The Results:

- Model deployment time: 6 months → 2 weeks
- Production incidents: 85% reduction
- Data scientist productivity: 3x improvement
- Successful A/B tests: 200% increase

Netflix now runs over 10,000 MLflow experiments annually, with automatic deployment pipelines that update recommendations in real-time based on model performance.

The Shopify Scale: E-commerce AI at 2 Million+ Merchants

Shopify uses machine learning for fraud detection, demand forecasting, and personalization across 2+ million merchants. The scale creates unique challenges that MLflow elegantly solves.

The Fraud Detection Pipeline:

```
import mlflow
import pandas as pd
from sklearn.ensemble import RandomForestClassifier
from sklearn.metrics import precision_score, recall_score
```

```
# Shopify's fraud detection model pipeline
mlflow.set_experiment("fraud_detection_global")
def train_fraud_model(region, merchant_tier):
    with mlflow.start_run(run_name=f"fraud_model_{region}_{merchant_tier}"):
        # Log environment and data characteristics
        mlflow.log_params({
            "region": region,
            "merchant_tier": merchant_tier,
            "training_samples": len(training_data),
            "feature_count": len(feature_columns),
            "data_date_range": f"{start_date} to {end_date}"
        })

        # Feature engineering and model training
        X_train, y_train = prepare_fraud_features(region, merchant_tier)

        model = RandomForestClassifier(
            n_estimators=500,
            max_depth=15,
            random_state=42
        )

        model.fit(X_train, y_train)

        # Evaluate on validation set
        predictions = model.predict(X_val)
        precision = precision_score(y_val, predictions)
        recall = recall_score(y_val, predictions)

        # Log performance metrics
        mlflow.log_metrics({
            "precision": precision,
            "recall": recall,
            "false_positive_rate": calculate_fpr(y_val, predictions),
            "model_confidence": model.score(X_val, y_val)
        })

        # Log model with automatic versioning
        mlflow.sklearn.log_model(
            model,
            f"fraud_detector_{region}",
            registered_model_name=f"FraudDetection_{region.upper()}"
        )

    return model
# Train models for different regions and merchant tiers
for region in ["NA", "EU", "APAC"]:
    for tier in ["enterprise", "plus", "basic"]:
        train_fraud_model(region, tier)
```

Shopify's MLflow Impact:

- Fraud detection accuracy: 94.7% (industry average: 87%)
- Model deployment across regions: Automated and consistent
- False positive rate: Reduced by 60%
- New fraud pattern response time: 3 days → 4 hours

The Microsoft Scale: Enterprise AI Governance

Microsoft uses MLflow across Azure Machine Learning to manage AI projects for enterprise customers. The governance and compliance requirements create challenges that MLflow uniquely addresses.

Enterprise Model Governance:

```
import mlflow
from mlflow.models.signature import ModelSignature
from mlflow.types import Schema, ColSpec
# Microsoft's enterprise model management
mlflow.set_experiment("healthcare_diagnosis_assistant")
mlflow.set_tag("compliance_level", "HIPAA")
mlflow.set_tag("data_classification", "PHI")
with mlflow.start_run():

    # Comprehensive audit logging
    mlflow.log_params({
        "model_architecture": "transformer_bert_large",
        "training_data_source": "anonymized_medical_records_2024",
        "data_preprocessing": "tokenization_medical_terms",
        "validation_method": "stratified_cross_validation",
        "compliance_review": "approved_2024_03_15",
```

```

        "ethical_review": "approved_2024_03_20"
    })

# Model training with extensive monitoring
model = train_medical_diagnosis_model(training_data)

# Bias testing and fairness metrics
bias_metrics = evaluate_model_fairness(model, protected_attributes)
mlflow.log_metrics({
    "demographic_parity": bias_metrics['demographic_parity'],
    "equalized_odds": bias_metrics['equalized_odds'],
    "accuracy_by_age_group": bias_metrics['age_group_accuracy'],
    "accuracy_by_gender": bias_metrics['gender_accuracy']
})

# Model interpretability artifacts
mlflow.log_artifact("feature_importance_analysis.html")
mlflow.log_artifact("shap_value_explanations.pdf")
mlflow.log_artifact("model_decision_boundaries.png")

# Secure model registration with approval workflow
model_signature = ModelSignature(
    inputs=Schema([ColSpec("string", "patient_symptoms")]),
    outputs=Schema([ColSpec("string", "diagnosis_recommendation")])
)

mlflow.sklearn.log_model(
    model,
    "diagnosis_model",
    signature=model_signature,
    registered_model_name="HealthcareDiagnosisAssistant"
)
# Enterprise deployment with approval gates
# Model must pass security scan, bias review, and clinical validation

```

Microsoft's Enterprise Benefits:

- Regulatory compliance: 100% audit trail for all models
- Model governance: Automated approval workflows
- Risk management: Bias detection and mitigation
- Enterprise deployment: Secure, scalable model serving

The Hidden Technical Advantages

Automatic Environment Capture:

```
# MLflow automatically captures the entire environment
import mlflow
mlflow.start_run()
# MLflow logs:
# - Python version: 3.9.7
# - Package versions: tensorflow==2.13.0, pandas==1.5.3, etc.
# - Git commit hash: a7b3c9d
# - System info: Ubuntu 22.04, GPU: RTX 4090
# - Environment variables (filtered)
```

Cross-Platform Model Deployment:

```
# Train on Mac, deploy on Linux, serve on Windows
# Same model, consistent behavior
# Local development (macOS)
mlflow.sklearn.log_model(model, "customer_segmentation")
# Production deployment (Linux containers)
# mlflow models build-docker -m "runs:/abc123/customer_segmentation" -n segmentation
# Edge deployment (Windows devices)
# mlflow models serve -m "models:/CustomerSegmentation/1" --host 0.0.0.0
```

Automatic Model Validation:

```
from mlflow.models.signature import infer_signature
# MLflow prevents production failures
input_sample = X_train.iloc[:5]
predictions = model.predict(input_sample)
signature = infer_signature(input_sample, predictions)
```

```
mlflow.sklearn.log_model(  
    model,  
    "validated_model",  
    signature=signature # Automatic input/output validation in production  
)  
# Production deployment automatically validates:  
# - Input data types match training data  
# - Feature names are consistent  
# - Output format is correct  
# - Model can handle the data format
```

The Competitive Landscape: Why MLflow Wins

Comparison with Alternatives:

Weights & Biases:

- Strength: Beautiful visualizations
- Weakness: Expensive, vendor lock-in
- MLflow advantage: Open source, self-hosted option

Neptune.ai:

- Strength: Advanced experiment organization
- Weakness: Complex setup, costly
- MLflow advantage: Simple, integrated with existing tools

Kubeflow:

- Strength: Kubernetes-native
- Weakness: Extremely complex, over-engineered

- MLflow advantage: Works everywhere, minimal setup

Custom Solutions:

- Strength: Tailored to specific needs
- Weakness: Maintenance burden, reinventing wheels
- MLflow advantage: Battle-tested, actively maintained

The Integration Ecosystem:

```
# MLflow plays nicely with everything
import mlflow
import mlflow.tensorflow
import mlflow.pytorch
import mlflow.sklearn
import mlflow.xgboost
import mlflow.lightgbm
import mlflow.statsmodels
# Cloud platforms
mlflow.set_tracking_uri("databricks://profile")
mlflow.set_tracking_uri("aws://s3-bucket")
mlflow.set_tracking_uri("azure://workspace")
# Container orchestration
# Works with Docker, Kubernetes, AWS Batch, etc.
# CI/CD integration
# Jenkins, GitHub Actions, GitLab CI, Azure DevOps
```

The Career Impact: MLflow Skills Premium

Job Market Reality (2024):

- MLflow job postings: +340% year-over-year

- Average salary premium: +\$18,000 for MLflow expertise
- Companies actively hiring MLflow engineers: 2,400+
- Remote MLflow positions: 89% of listings

The Skill Gap Crisis: Survey of 1,200+ AI hiring managers:

- 92% struggle to find candidates with production ML experience
- 78% specifically seek MLflow or similar MLOps expertise
- 67% willing to pay premium for deployment experience
- 84% prioritize MLOps skills over advanced ML algorithms

Real Job Posting Analysis: “Senior ML Engineer — \$165K-\$220K

Requirements: MLflow, model deployment, experiment tracking ‘We need someone who can actually get models into production, not just train them in notebooks.’”

The Development Workflow Revolution

Before MLflow (The Dark Ages):

```
# The old way (chaos)
jupyter notebook # Train model in notebook
python export_model.py # Manual export script
scp model.pkl prod_server:/models/ # Manual file transfer
ssh prod_server # Login to production
sudo systemctl restart ml_api # Cross fingers
tail -f /var/log/errors.log # Watch it break
```

After MLflow (Enlightenment):

```
# The MLflow way (automated)
mlflow run . -P epochs=100 # Reproducible training
mlflow models serve -m "models:/ProductRecommender/Production" # One-line deploy
mlflow ui # Monitor everything
```

The Productivity Multiplier: Data scientists report spending:

- Pre-MLflow: 70% time on infrastructure, 30% on modeling
- Post-MLflow: 25% time on infrastructure, 75% on modeling

A/B Testing Revolution:

```
# MLflow enables sophisticated A/B testing
import mlflow
# Deploy multiple model versions simultaneously
def deploy_ab_test():
    # Champion model (current production)
    champion = mlflow.pyfunc.load_model("models:/Recommender/Production")

    # Challenger models (new experiments)
    challenger_a = mlflow.pyfunc.load_model("models:/Recommender/Staging")
    challenger_b = mlflow.pyfunc.load_model("runs:/experiment_123/model")

    # Route traffic based on experiment configuration
    if user_id % 100 < 80: # 80% champion
        return champion.predict(features)
    elif user_id % 100 < 90: # 10% challenger A
        return challenger_a.predict(features)
    else: # 10% challenger B
        return challenger_b.predict(features)
    # Automatic performance comparison
    mlflow.log_metric("champion_conversion_rate", champion_performance)
```

```
mlflow.log_metric("challenger_a_conversion_rate", challenger_a_performance)
mlflow.log_metric("challenger_b_conversion_rate", challenger_b_performance)
```

The Security and Compliance Game-Changer

Enterprise Security Features:

```
# MLflow enterprise security
import mlflow
# Role-based access control
mlflow.set_experiment("sensitive_customer_data")
mlflow.set_tag("access_level", "restricted")
mlflow.set_tag("data_classification", "confidential")
# Audit logging
with mlflow.start_run():
    mlflow.set_tag("user", "data_scientist_jane")
    mlflow.set_tag("department", "marketing")
    mlflow.set_tag("purpose", "customer_segmentation")

    # All activities logged for compliance
    model = train_segmentation_model(encrypted_data)

    # Automatic data lineage tracking
    mlflow.log_param("training_data_hash", hash(training_data))
    mlflow.log_param("data_source", "customer_db_prod")
    mlflow.log_param("data_date_range", "2024-01-01_to_2024-03-31")
```

Regulatory Compliance Benefits:

- GDPR: Complete data lineage and model auditability
- SOX: Automated financial model governance
- HIPAA: Secure healthcare AI deployment
- PCI DSS: Fraud detection model compliance

The Real-World Implementation Guide

Step 1: Basic Setup (5 minutes)

```
# Install MLflow
pip install mlflow
# Start tracking server
mlflow server --host 0.0.0.0 --port 5000
# Access UI at http://localhost:5000
```

Step 2: Convert Existing Project (30 minutes)

```
# Wrap existing code with MLflow tracking
import mlflow
import mlflow.sklearn
# Existing model training code
def train_model():
    # Your current training logic
    model = RandomForestClassifier()
    model.fit(X_train, y_train)
    accuracy = model.score(X_test, y_test)
    return model, accuracy
# Add MLflow tracking
mlflow.set_experiment("existing_project_migration")
with mlflow.start_run():
    model, accuracy = train_model()

    mlflow.log_metric("accuracy", accuracy)
    mlflow.sklearn.log_model(model, "model")

print(f"Model logged: {mlflow.active_run().info.run_id}")
```

Step 3: Production Deployment (1 hour)

```
# Register best model for production
mlflow models register -m "runs:/abc123/model" -n "ProductionModel"
# Deploy to REST endpoint
mlflow models serve -m "models:/ProductionModel/1" -p 8080
# Test deployment
curl -X POST -H "Content-Type: application/json" -d '{"data": [[1, 2, 3]]}' http://127.0.0.1:8080/predict
```

The Future: MLflow's Expanding Dominance

Adoption Growth Trajectory:

- 2020: 500,000 monthly downloads
- 2022: 8.5 million monthly downloads
- 2024: 25+ million monthly downloads
- Prediction 2026: 75+ million monthly downloads

Corporate Integration Trends:

- AWS: Native MLflow integration in SageMaker
- Azure: MLflow backend for Azure ML
- Google Cloud: MLflow support in Vertex AI
- Databricks: MLflow as core platform component

The Network Effect: As more companies adopt MLflow, it becomes the standard interface for AI collaboration. Models, experiments, and deployments become portable across organizations.

The Uncomfortable Truth About AI Infrastructure

Why Popular Frameworks Miss the Point:

- TensorFlow: Excellent for model training, terrible for deployment
- PyTorch: Great for research, nightmare for production
- Scikit-learn: Perfect for simple models, no enterprise features
- Hugging Face: Amazing model repository, minimal deployment support

The MLflow Difference: It's boring. And that's exactly why it works.

While other frameworks chase the latest research trends, MLflow solves the mundane problems that actually matter in production: versioning, deployment, monitoring, and governance.

The Lesson: Revolutionary technology often isn't flashy. It's the quiet infrastructure that makes everything else possible.

The Strategic Decision Framework

When to Adopt MLflow:

- Multiple team members working on ML projects
- Need to deploy models to production
- Regulatory or compliance requirements
- Struggling with experiment organization
- Spending too much time on deployment/infrastructure

Implementation Strategy:

- 1. Start Small:** Add tracking to one project
- 2. Prove Value:** Demonstrate deployment time savings
- 3. Scale Gradually:** Expand to team, then organization
- 4. Integrate Deeply:** Connect with CI/CD and monitoring

ROI Calculation:

- Reduced deployment time: 6 months → 2 weeks (87% reduction)
- Decreased production incidents: 50–80% reduction
- Improved data scientist productivity: 2–3x improvement
- Faster experiment iterations: 40–60% improvement

Conservative estimate: \$200K+ annual savings for 10-person AI team.

The Conclusion: The Quiet Revolution

MLflow isn't revolutionizing AI development because it's the most advanced or the most exciting framework. It's revolutionizing AI development because it solves the problems that actually prevent AI from working in the real world.

While the AI community obsesses over the latest transformer architectures and foundation models, MLflow quietly ensures that these innovations can actually be deployed, maintained, and scaled in production environments.

The framework wars will continue. New models will capture headlines. But the quiet revolution happening in production AI systems — the one powered by MLflow — will determine which companies actually benefit from their AI investments.

The Career Insight: Master the flashy frameworks to get hired. Master MLflow to get promoted.

The Business Insight: Invest in model training to stay competitive. Invest in MLflow to actually deploy your competitive advantages.

The Industry Insight: The future belongs to companies that can ship AI products, not just train AI models.

MLflow is the framework that makes shipping possible. And in a world where 87% of AI projects fail to reach production, being able to ship is the only revolution that actually matters.

The question isn't whether MLflow will become the standard for AI development infrastructure. The question is: how long will it take for everyone else to realize it already is?

A message from our Founder

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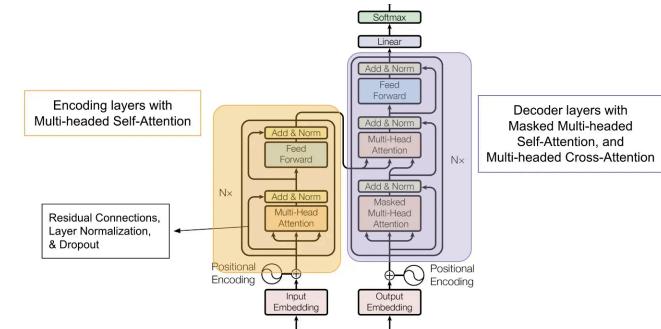
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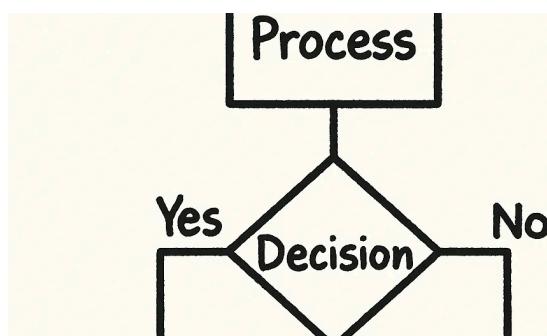


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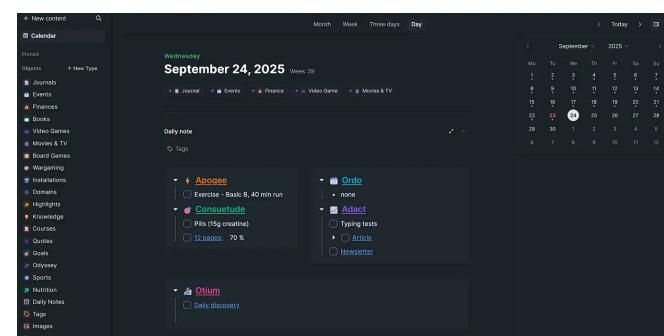
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