



# Fast, Accurate and Real-Time Predictions with PipelineAI

The Fastest, Safest, and Most-Flexible Machine Learning Application Platform on the Market

## At a Glance

PipelineAI is a real-time model-prediction platform that optimizes, scales, and explains the predictions of any cognitive decision-making system at the speed of thought. Our platform clears the path from local-laptop research to global-scale production. PipelineAI is a zero-touch continuous model optimization platform that automatically generates, deploys, and compares hundreds of model variants - from just a single model. Scientists and Engineers can instantly launch any experiment using any language and any ML/AI framework.

### KEY BENEFITS

- One-click model deployment directly from your laptop or staging server
- Continuous model optimizations throughout the life of the model
- Online model training to improve prediction relevancy after initial deploy
- Instant prediction explanations for each and every decision
- Safe experiments in live production using live-traffic mirroring/shadowing

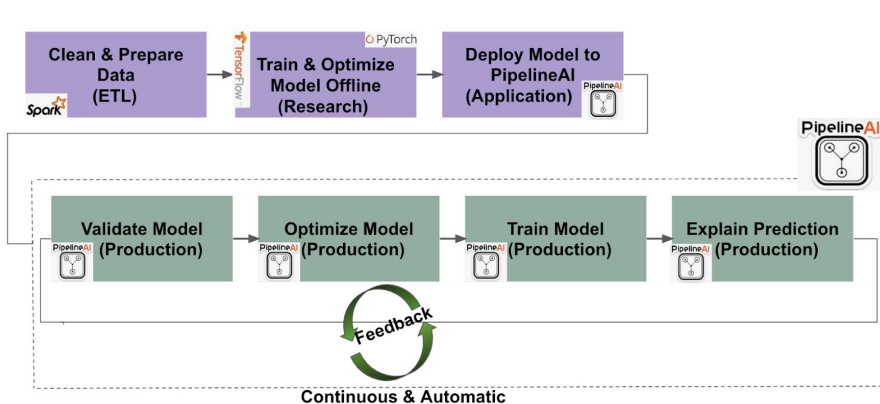
## Business Challenges

The Enterprise with traditional Machine Learning is struggling to take models from research to production due to widening skills gap, high maintenance cost, and poor runtime performance. Current ML solutions do not provide the trust, accuracy and speed that is needed to provide the financial benefits demanded by business leaders.

## Product Overview

The PipelineAI Application Runtime Platform uses a serverless, cloud-agnostic architecture that allows you to 1) automate the infrastructure, 2) introduce new functionality as needed including multi-model predictions, and 3) production-size models at the speed of thought. PipelineAI uses a unique combination of offline training metrics and online prediction performance to adaptively route user traffic to the best-performing models 24 hours a day with no concept drift. PipelineAI provides a high-performance implementation platform - a unique, adaptive, and continuous “VOTE” platform: “Validation, Optimization, Training, and Explanation.”

## PipelineAI’s Unique Continuous “VOTE” Platform



Which metrics are most-aligned with the value you would receive from PipelineAI?

- Time to deploy new models to live production
- Large number of models & experiments in production
- Reduce time to detect bias & model decay
- Increase performance through auto-optimizations
- Minimize cost per prediction with adaptive traffic routing

PipelineAI automatically coordinates the validation, optimization, training and explainability of the model. VOTE involves many automated cycles of model training and testing using different sets of online hyperparameters including system configuration, network speed, and real-time user data.

For more information, please visit [pipeline.ai](https://pipeline.ai)