

DATA+AI
SUMMIT 2022

Unifying Data Science and Business with Intelligent Applications

ORGANIZED BY  databricks



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Agenda

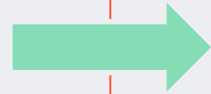
1. Background and Introduction
2. Problems in the Data Science Lifecycle
3. Intelligent Applications
4. AI Integration Demonstration with Databricks and AI Squared

The ML Lifecycle - Expectation

building & experimentation

 databricks

mlflow™

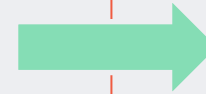


deployment



aws

mlflow™



profit



The Problem – Part 1

the ML lifecycle is siloed, manual, & disjoint

Building, Experimentation, and Deployment

- **Multiple deployment options, often tightly coupled with CSP technology**
 - Creates inefficiencies in highly-controlled environments
 - Introduces friction in model productionization, increasing time to market

The Problem – Part 2

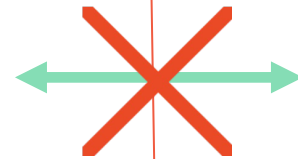
no production feedback loop

 databricks

mlflow™

Experimentation

Data Scientists




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 Microsoft
Dynamics 365

Application

Business Users

The Problem – Part 3

lack of consideration for the end model consumer

Making Model Results Accessible

- **Wrapping deployed models with an application is expensive and time-consuming**
 - Adds elements to the end user workflow
- **Doesn't comport with existing end user workflows**

The Solution

Intelligent Applications

Integrating model outputs directly into end user applications

- End users want **accurate, relevant, and actionable** insights without added frictions, presented **when, where, and how** they will be most impactful
- Limited added complexity to end user workflows
- Model outputs are actionable
 - Users get the information they need when they need it
- Model outputs are coupled with context
 - End-user assessment of model performance

Truly End-to-End ML Lifecycle

building & experimentation

 databricks

mlflow™

deployment



mlflow™

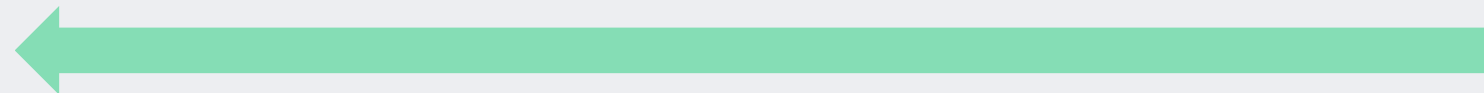
end-user workflow



Microsoft Dynamics 365

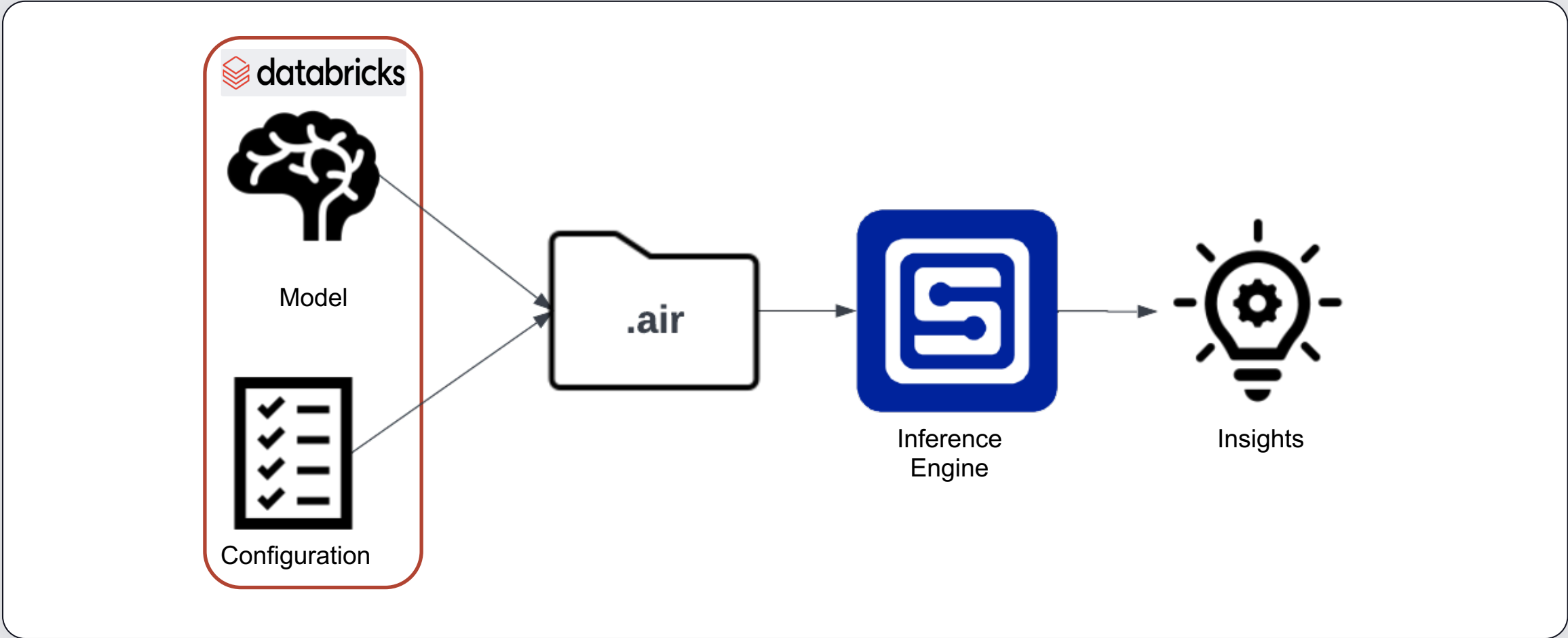


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validation & retraining

AI Integration Workflow



Demonstration

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Thank you



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