ML-OPs - OPERATIONALIZATION OF MODELS

A NEW OUTLOOK

BALA GOPALAKRISHNAN | CHIEF DATA OFFICER | PELMOREX CORP.



WHO IS PELMOREX CORP?



- Canada's 4th largest digital network across desktop and mobile
- World's 3rd-largest weather information provider
- Rapid growth in AI/ Data Analytics internally and for B2B customers











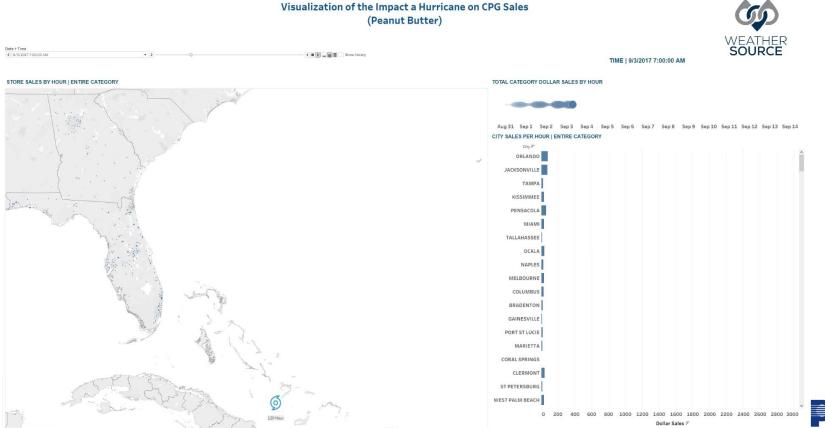








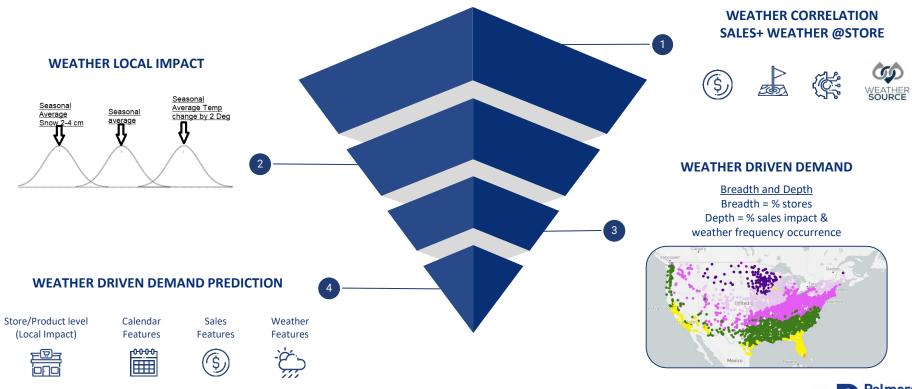
SNAP SHOT OF THE BUSINESS PROBLEM WEATHER AFFECTS HOW WE PURCHASE!



Pelmorex

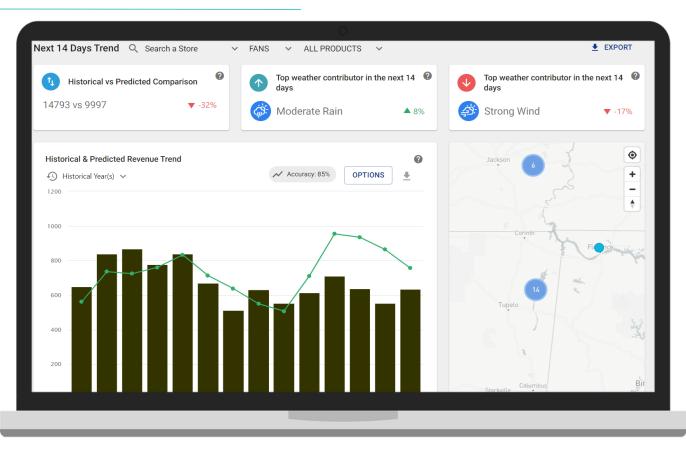
corp

WEATHER DRIVEN DEMAND



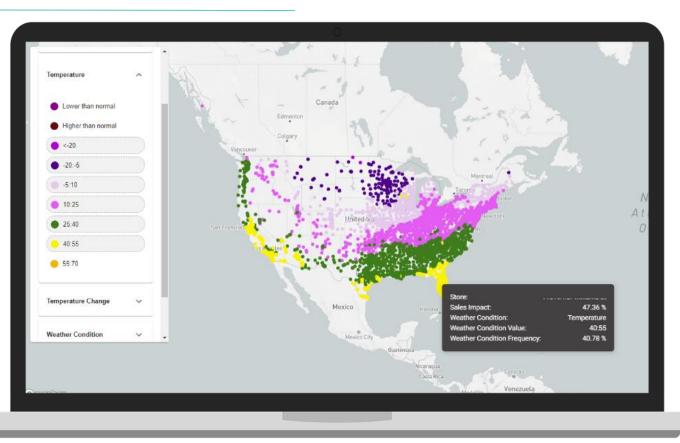
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END USER TOOL FOR B2B CUSTOMER



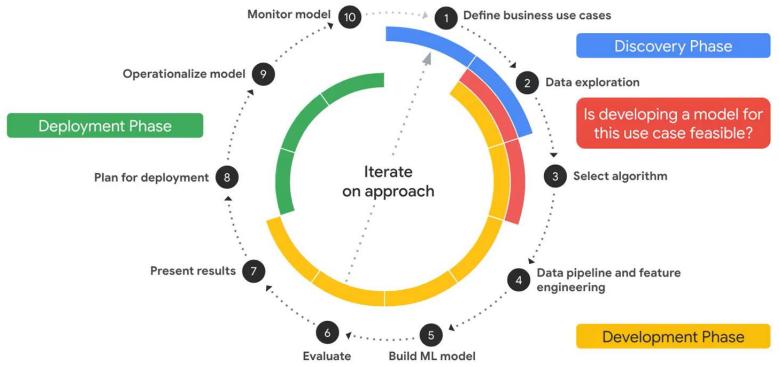


EXPLAINABLE AI - WHICH PRODUCTS HAVE WEATHER IMPACT



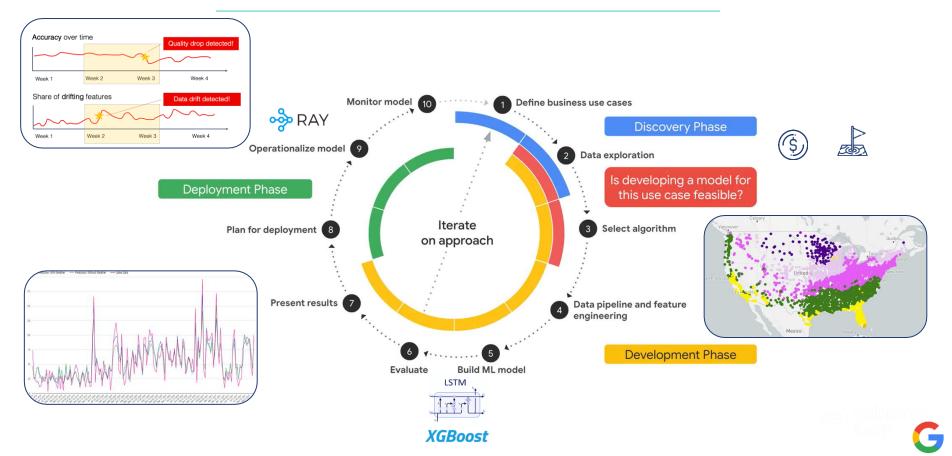


ML OPS - CIRCLE OF LIFE

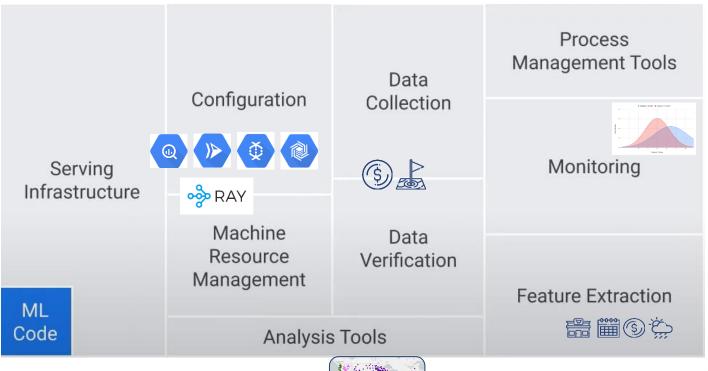


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ML OPS PHASE THROUGH THE LENS OF WEATHER DRIVEN DEMAND



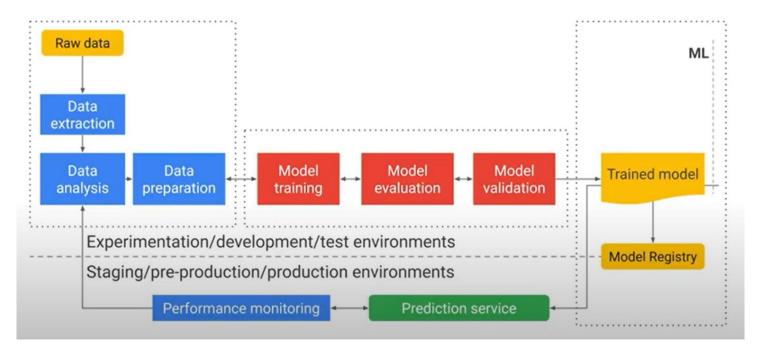
IN PRODUCTION - ML IS ONLY A SMALL PART OF THE SYSTEM





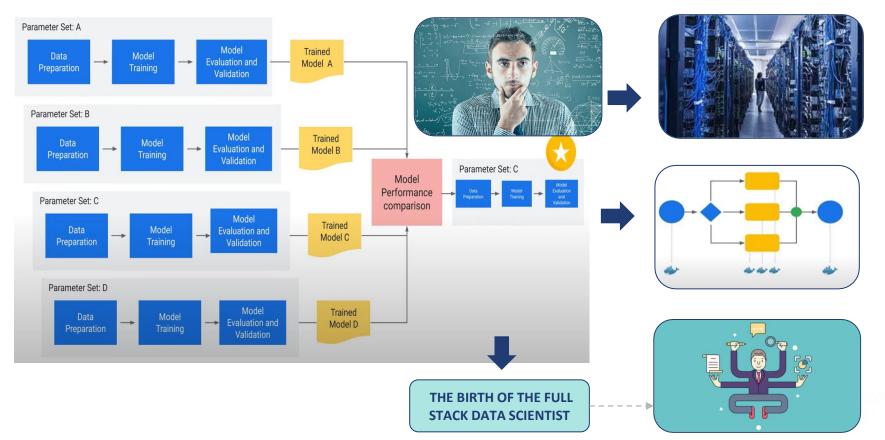
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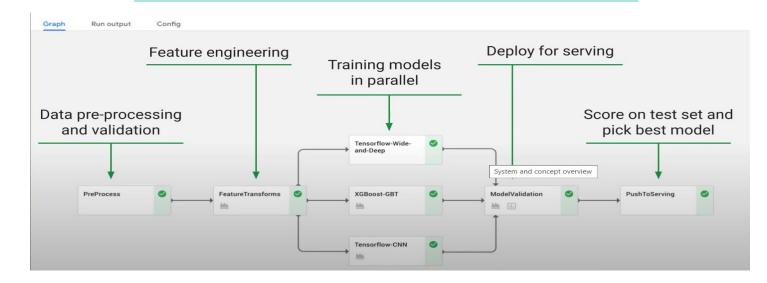




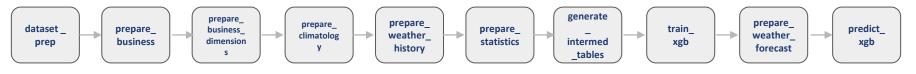
DATA SCIENCE -> PIPELINES -> INFRASTRUCTURE



PIPELINES IN ACTION

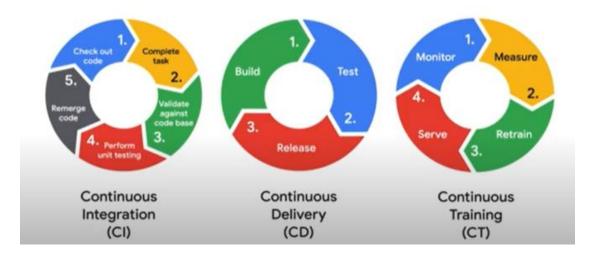


WDD PIPELINE





DEV OPS VS ML OPS



ML TRAINING SPECIFIC ISSUES

- Not enough time on data selection
- Insufficient Feature Engineering
- Different data in Live model

Validate Data, Schema, Models
Consider Whole ML Training Pipeline
Monitor, Retrain, Serve Model



ML OPS MATURITY WHERE ARE YOU?

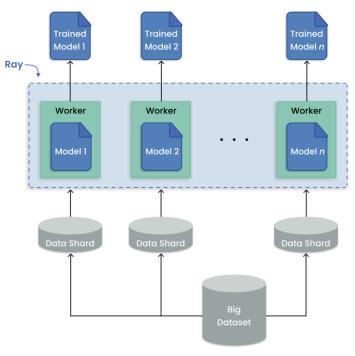


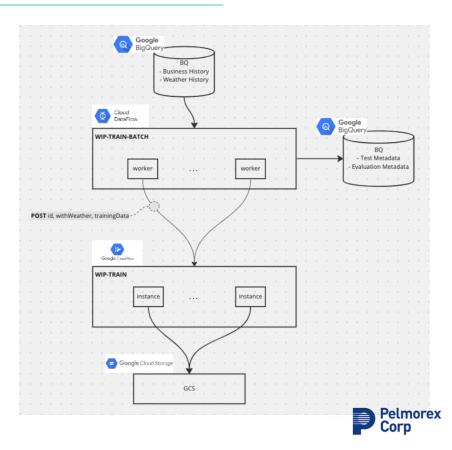


HOW DO YOU SCALE YOUR ML FOR **MODELS AND DATA?**

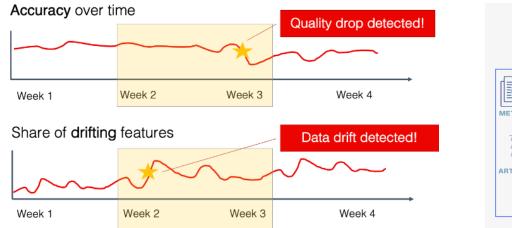
\$ Thousands of stores, hundreds of Products at POS...

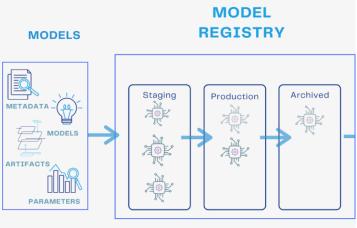
WDD SCALING CHALLENGE





MODELS IN PRODUCTION OTHER KEY ELEMENTS





EVIDENTLY AI



ML TOOLS



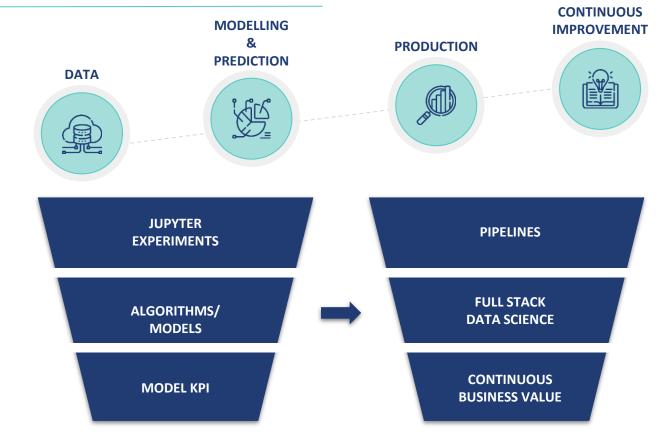




AND OTHERS....



SUMMARY – THE NEW ML-OPS WORLD







Thank You

We are hiring

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