





Monitoring AI in Production

Prophecy Labs, CTG & NannyML Wiljan Cools

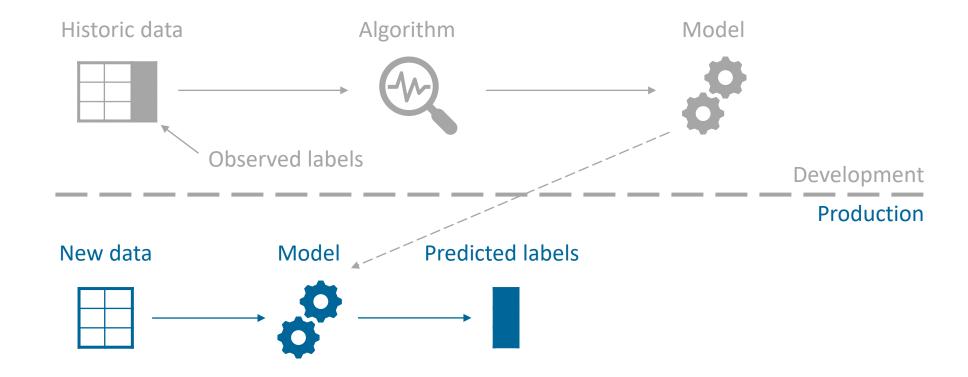


ML in Development



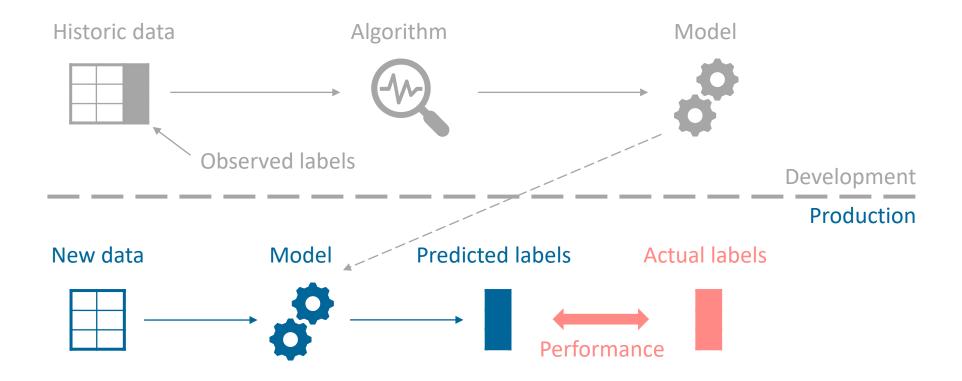


ML in Production



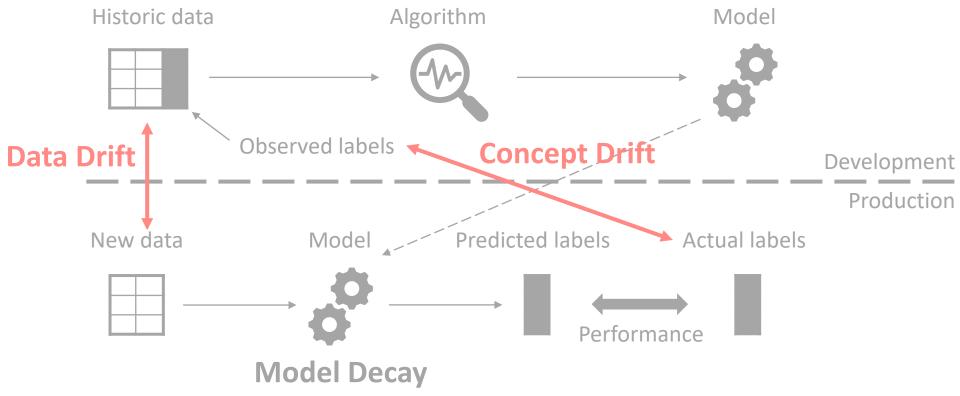


ML in Production



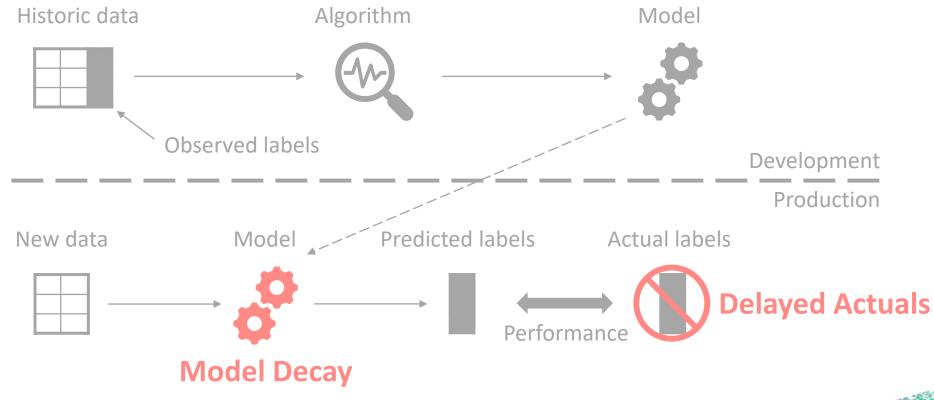


ML not being Supervised in Production





ML not being Supervised in Production



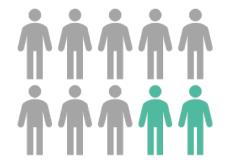


The Impact of Supervising ML in Production

Churn prediction &

Customer retention

Predict which customers will churn



Try to retain them





The Impact of Supervising ML in Production

Churn prediction & Customer retention

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Predict which customers will churn

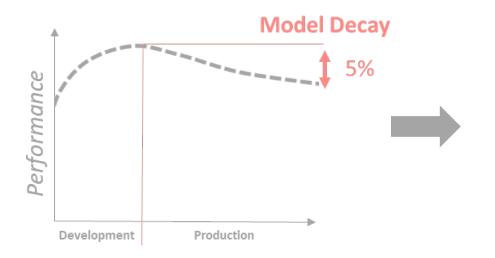
Try to retain them



Churn rate 2.6%

Profit 650M

Customers 2M



Churn rate 2.86%

Additional Loss 1.7M

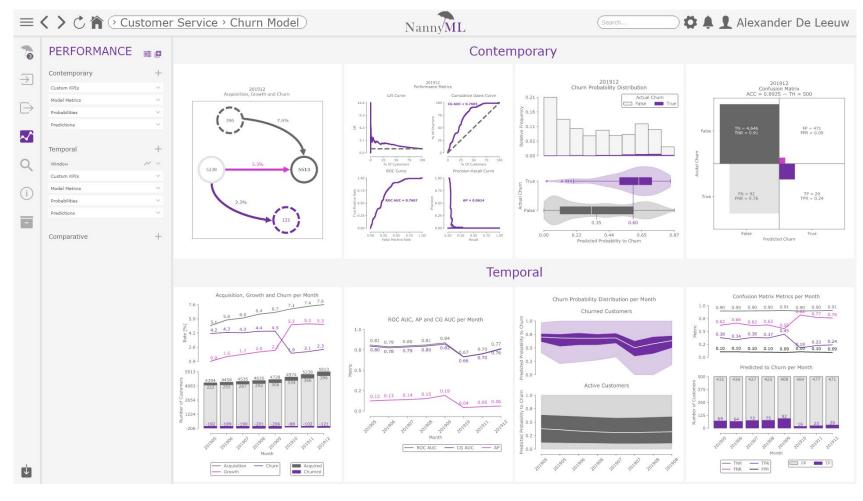
Additional Churners 5K





The Solution

An Enterprise Software that monitors AI in production by:



- ✓ Tracking **changes** in model input and predictions
- ✓ Measuring the performance of ML models
- ✓ Sending **alerts** and suggesting corrective actions
- ✓ **Explaining** Al behaviour

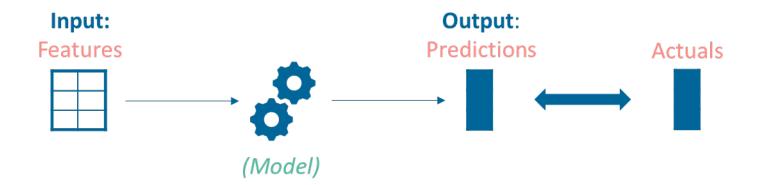






How does it work?

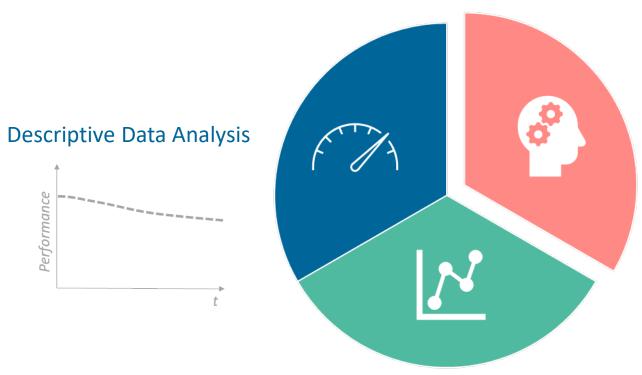
Data Dimensions



- Time Dimensions
 - ✓ Contemporary
 - ✓ Temporal
 - ✓ Comparative



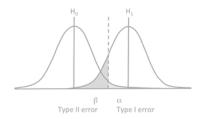
How does it work?



Diagnostic (& Predictive) Data Analysis



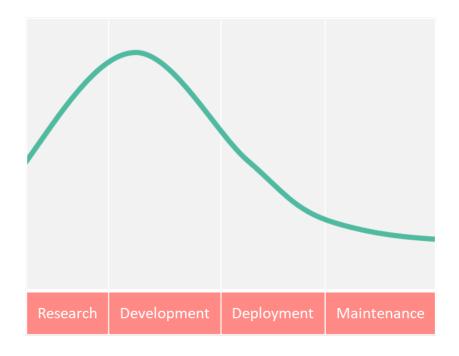
Confirmatory Data Analysis



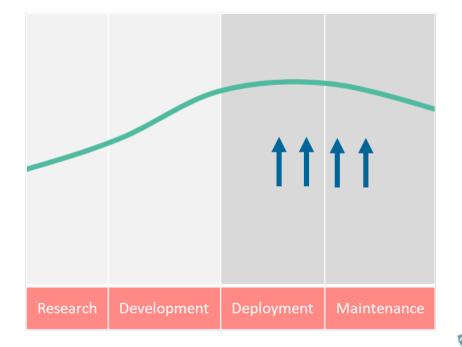


The Future

Al Focus Today



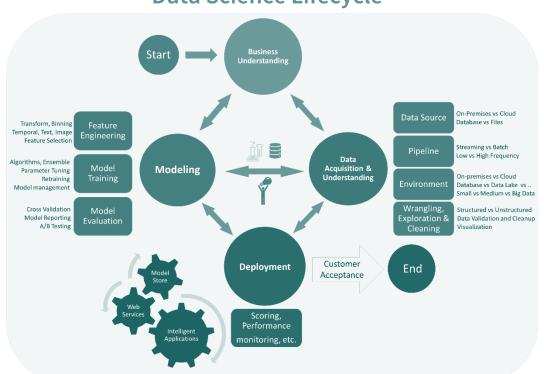
AI Focus Tomorrow

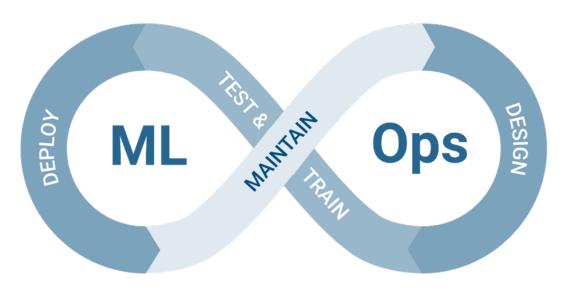




Bridging Business Understanding & MLOps

Data Science Lifecycle







Where we are today

- POC finished
- Rolling out a Pilot Program
 - 6-8 weeks
 - Innovative companies
 - That have AI running in production making business critical decisions
 - Agile Customer Driven Development
 - ✓ Influence the product roadmap
 - ✓ Get tailor-made NannyML features
 - ✓ Solve your monitoring problems
- get@NannyML.com



In summary

The World Changes

Data Changes

Al Models Degrade
Over Time

Al Value is Lost















Understand that production data is dynamic

- Try to monitor AI in production
- Try to track performance
- Try to detect data drift
- Try to prevent model decay
- Try to extract insights from your Al's behaviour

No Insights Why





