

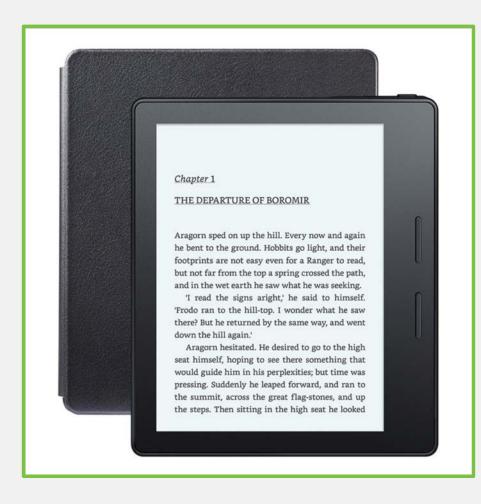


Rate Deployment in a Digitally Transforming Insurance Environment

Neal Silbert, DataRobot

Dror Pockard, Earnix

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Control and Governance









Time to Market



Facilitating Real Time Rate Deployment

What you can accomplish with quick deployment of rating structures and rates:

- ☐ More competitive and responsive to changing market dynamics.
- Deployment of rating structure and model changes goes from months to days.
- ☐ Speeds the wait for lengthy core system replacements agile deployment can be realized now.
- Provides complete model management and optimization capabilities.
- Minimizes handoffs rate development to deployment is more efficient and of higher quality – without numerous handoffs.





End to End Pricing

- Insurers need an end to end process for pricing and real time rate deployment.
- With the pricing function operationalized and thus integrated into the overall business process with other departments, price is treated holistically alongside marketing, sales, product management, risk, underwriting, claims, etc.
- Reliance on legacy rating engines and disparate analytical tools often creates unnecessary complexity and errors.
- ☐ Using one integrated platform for data management, modeling, simulation, optimization, testing, and deployment creates efficiency, improves the quality and facilitates collaboration across the organization.





Governance – Critical for Insurance

Governance:

- Audit: who did what when and why
- **Control**: who has authority to view, decide, execute
- **Share**: multiple users, multiple user types, multiple locations

- e.g.: How does your analytics process support model governance?
- e.g.: Consumer right to explanation requires transparency regarding decisions that involve models or rules in the system
- e.g.: Regulators require ability to prove that all risk related processes are codified and controlled
- e.g.: Insurers and lenders need to respond to regulator inquiries regarding customer complaints



The ABCD's of end-to-end Pricing Platform

Managerial Level

Transactional Level

Operational

Optimization / Personalization

A. Centralized pricing management

- Single pricing repository and single pricing process
- Real-time Pricing Committee Support
- Governance over pricing process

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B. Real time pricing

- Real-time delivery of prices
- Full customer view
- Quote repository

C. Predictive business decisioning

- Financial planning (elasticity based volume/profit tradeoffs/New Products/What If)
- Multi products planning
- Monitoring

D. Personalization

- Price optimization (rate sheet and/or individual)
- Discounting approvals (semi-) automated
- Individual product personalization



Product Bundle Personalization

- Product Bundle Personalization extends the analytical modelling beyond just modeling for pricing, retention, claims, etc.
- ☐ It generates, for each customer, a personalized product or bundle that fits them best.





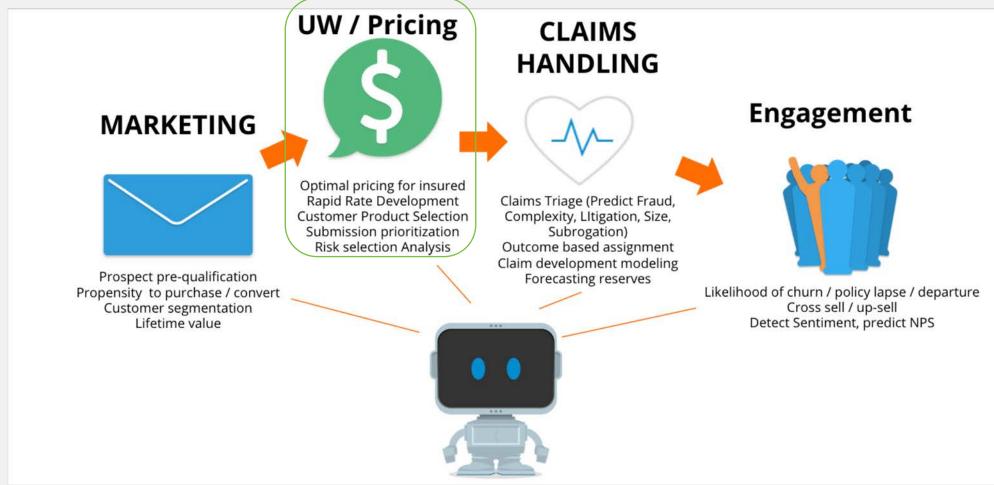
Event Detection

- □ Analytics-based customer monitoring, event detection and triggering enables financial institutions to proactively market contextualized offers- through the capability to sense, think, and then act on data.
- □ Personalized customer offers can be precisely timed during "moments that matter". Relying on analytically based pattern detection and decisioning allows offers to be more timely and contextually relevant.





DataRobot's Auto Machine Learning Opens Numerous Pricing and Underwriting Possibilities with Earnix





Example Applications of DataRobot Auto Machine Learning Include...

Sales and Marketing

- Lead scoring / propensity
- Cross-sell / Up-sell
- Risk pre-qualification
- Campaign optimization
- Lifetime customer value
- Revenue forecasting
- Agency optimization

Underwriting

- Customer preference
- Submission triage
- Underwriting fast track
- Auto accept / reject w/ reason codes
- Assignment optimization
- Risk selection / quality score
- Prioritized questions
- Risks like this comparison

Pricing (Actuarial)

- Technical pricing
- Dynamic pricing
- Price elasticity analysis
- Competitor prices / market ranking
- Decile / Quintile typical customer



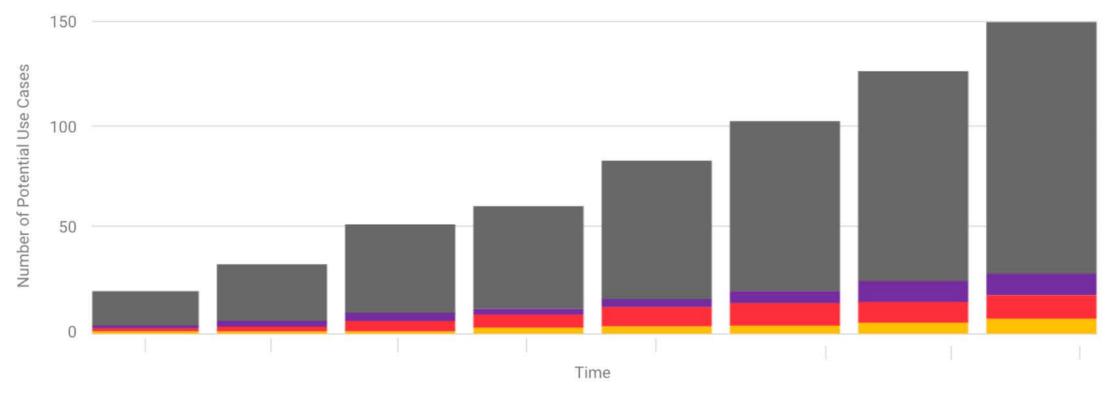


HAND-CODING EVERY MODEL CANNOT POSSIBLY MEET THE DEMAND



In order to recognize the potential of AI, organizations need to utilize tools that will accelerate adoption







AUTOMATED MACHINE LEARNING GREATLY INCREASES CAPACITY

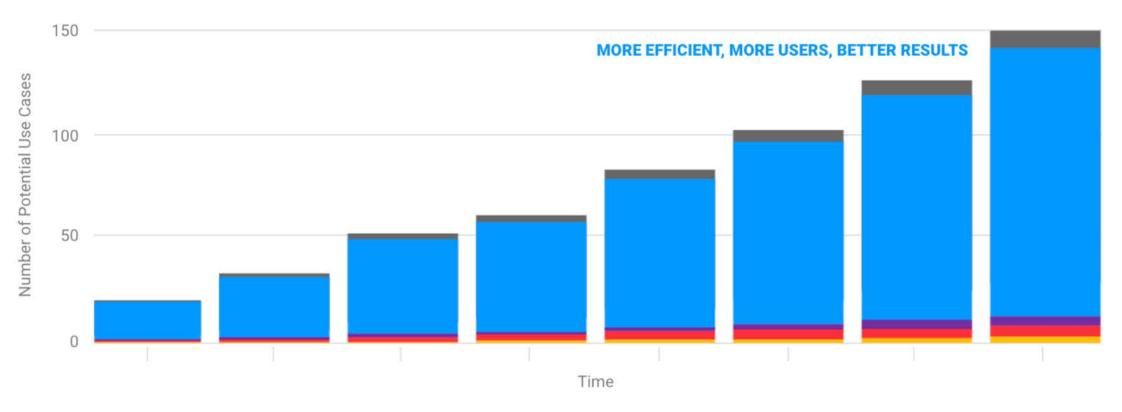


DataRobot's automated machine learning:

- Enables your data science teams to be more productive
- 2. Increases the number of people who can build AI solutions







All Interaction **Parameters**

- Customer ID Data
- **Product Data**
- **Pricing Data**
- Analytical Model **Scores**
- Segmentation Criteria
- Other Selection Criteria as Needed



Pipe"



Engine

Real Time

- **Optimal Rates**
- **Optimal Discounts**
- **Optimal Add-ons**
- **Accuracy Prices**
- Probability/Priority **Indicators**
- Timing
- Channel Preference
- Model Management
- Control and Governance
- Other Real Time Metrics as Needed





" A Single Pipe"

Result

- Correct Rates, Discounts, Product, Price, and **Timing Delivered** to Appropriate Channel
- Hyper Personalization of Offers
- Performance Monitoring

Marketing Channel of Choice







How Real Time Rate Deployment Works

CUSTOMER

Requests a Policy Quote

INPUT TO END TO END MACHINE LEARNING ENABLED PLATFORM

All Interaction Parameters

ADVISOR

- Uses Earnix output to negotiate
- · Authorisation workflow as needed



ADVISOR

- Inputs customer and policy details.
- Pushes "Get Terms" button.





- Optimal premium, coverages
- Optimal discount (if customer asks)
- Optimal add-on/rider offer with optimal price (i.e. road side assistance)
- Profitability indicators to help decisions



CUSTOMER

- Agree with customer
- Submit offer to operational system
- Give customer documentation





Earnix Real Time Rate Deployment Features

- Proven Reliable Installed at many large insurance companies around the world.
- Flexible can be integrated with any front-end system or existing rating engine you currently use.
- Comprehensive includes data management, modeling, simulation, testing, deployment, and monitoring
- Easy Integration cloud-based and easily connected to core or channel systems through APIs or web services
- Secure and Stable Highly scalable system that provides the needed performance that a mission critical system should provide.
- Control and Governance User and group permissions, logs, and audit trails to provide process control and administration.



Thank You



