

AI & Data Solutions 1 Pagers (A Selected List)



Summary	AI Drivers	Benefiting Orgs
Most Profitable Customers (80-20 Quad Segmentation)	RFM margin patterns	Sales, Marketing, Product, Finance
B2B Deal Scoring	Deal / discount score	Sales, Sales Ops, Finance
Customer Lifetime Value Predictive Model	Churn prediction	Sales, Operations, Customer Success, Finance
Sales Pipeline Revenue Forecasting	Demand/usage patterns	Sales, Sales Ops, Product, Finance
Opportunity Pipeline Win/Loss Predictive Model	Deal win likelihood	Sales, Marketing, Operations, Finance
M&A Operational Financial Performance	Weighted scoring	Finance, Corp. Dev., Operations
Spare Parts Operations Improvements	Efficient frontier	Finance, Supply Chain, Services, Operations
Predictive Maintenance to Lower Product Returns	Probability of failure/repair	Finance, Supply Chain, Support, Operations
Device IoT Analytics to Improve Customer Support	Support issue prediction	Support, Supply Chain, Manufacturing
Financial Analytics Workflow Automation	Forecasting	Finance, Operations

Most Profitable Customers (80-20 Quad Segmentation)



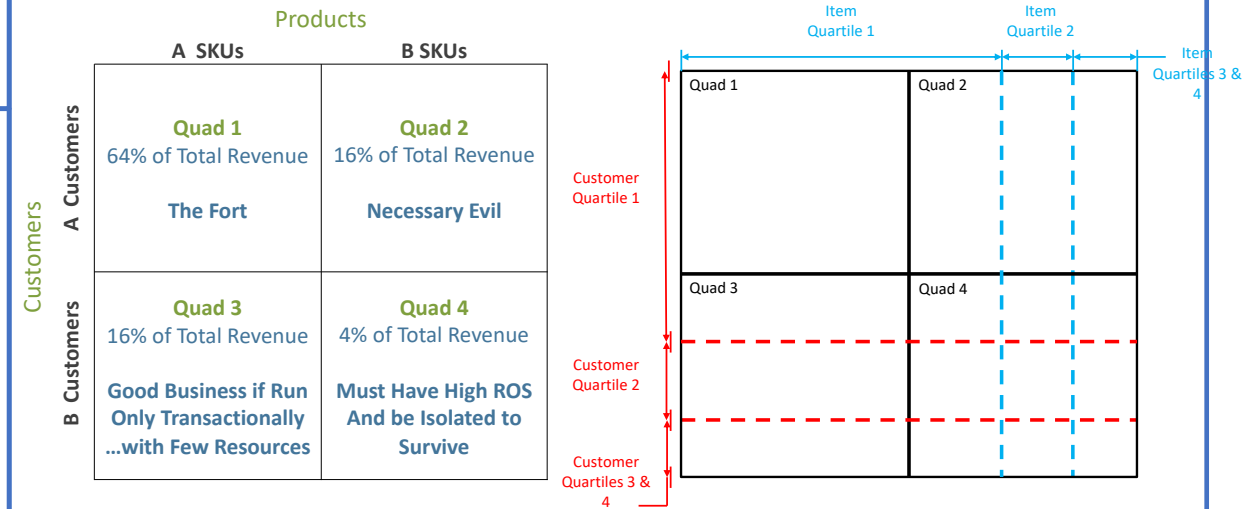
Benefiting Orgs: Sales, Marketing, Product, Finance

Description:

- Innovation enabler to simplify, focus, & speed up growth.
- Up-ends the growth paradox: “Growth creates complexity and complexity kills growth”
- Customer/Product Quad Segmentation analysis to determine most profitable quartiles
- Say NO to be able to say YES to what really matters
- Drive/institute performance-based tactics & actions through your organization

Solution Summary:

- Statistical analysis of customers & products into profitability quartiles
- Provides complexity reduction playbook for quartile rationalization and simplification with process actions



Benefits:

- Improved margins and PBIT (how much, where to deploy)
- Confidence in large accurate bets for people and speed
- Enables rapid data-driven decision-making to pivot towards growth

Level of Effort:

- 4 - 6 weeks @ 1.5 resources

Deal Scoring



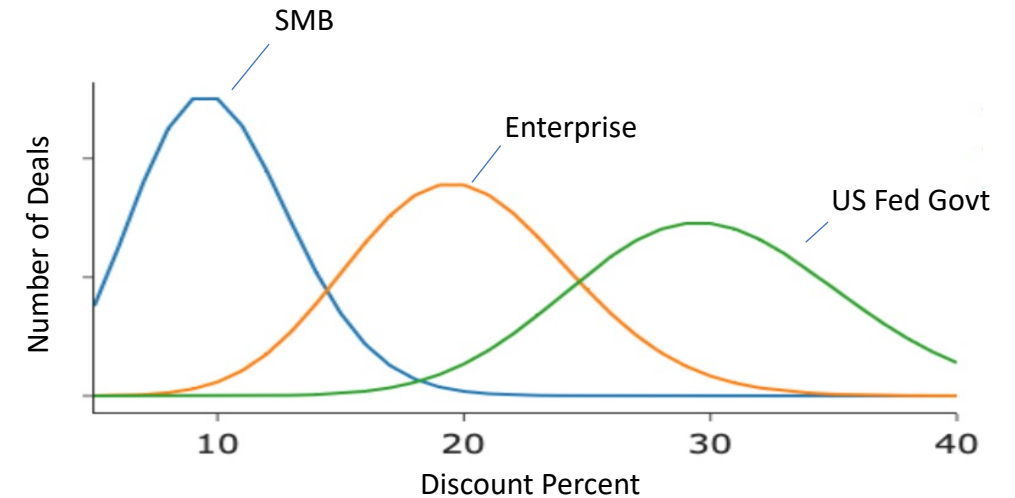
Benefiting Orgs: Sales, Sales Ops, Finance

Description:

- Provide scoring for quotes to allow sellers, sales management, finance and others to easily assess the quality of a quote relative to similar quotes historically and relative to desired quote characteristics.
- Users can drill down on scores to see how the deal is rated on various dimensions such as discount percentage, contract terms, deal size, market segment, etc.
- Deal score automatically drives approval requirements, guides sellers to generate quotes requiring no approvals

Solution Summary:

- Statistical analysis of historical sales
- Deal segmentation across various dimensions – Product Family, Geography, Customer Type, Deal Size



Benefits:

- Improved margins
- Sellers are empowered to create and deliver quotes to customers faster and with fewer approvals
- Reduced quote approval volume for seller and approvers

Level of Effort:

- 5 - 7 months @ 4 resources

Customer Lifetime Value Predictive Model



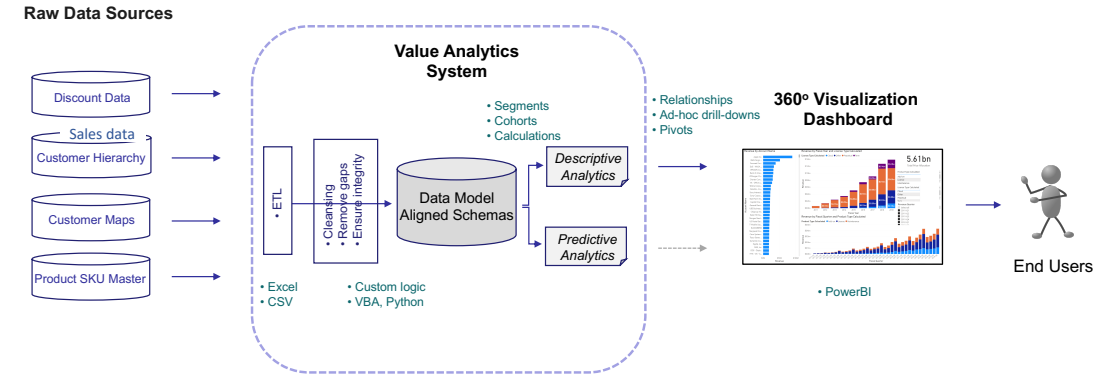
Benefiting Orgs: Sales, Operations, Customer Success, Finance

Description:

- Provides description of best customers and lifetime revenue
- Integrates sales history and customer master data into unified data model
- Creates sophisticated logic for customer churn, product usage, and growth
- Solution integrated into analytics process with documentation and user training

Solution Summary:

- Identifies highest revenue/account, low and high churn rates/groups, impact of product usage on account value
- ML model for predicting customer churn
- Insights into corrective actions to increase lifetime value



Benefits:

- Provides an analytical Customer Lifetime Value and growth framework
- Measures customer churn and predicts likelihood
- Purchase trend/pattern analysis reveals valuable customer journeys, early warning of churn
- Correlated business drivers of revenue improve sales efficiency

Level of Effort: 12 - 16 weeks @ 3 resources

Opportunity Pipeline Revenue Forecast Model



Description:

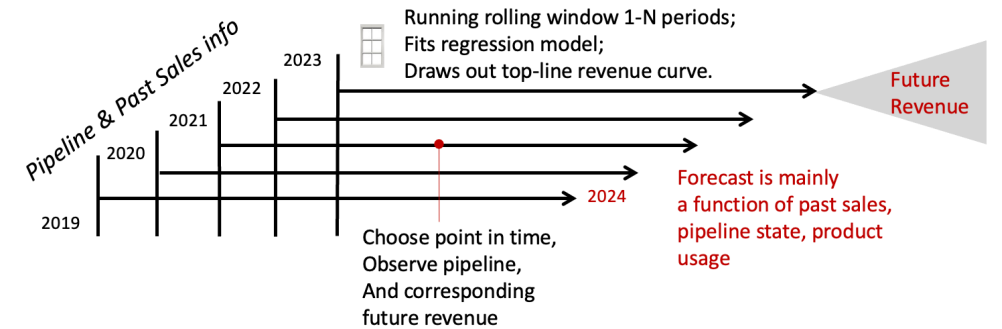
- Goal to improve revenue forecast accuracy from sales pipeline
- Use sales history, product usage, and pipeline data
- Look across geo, customer, product, business segments

Solution Summary:

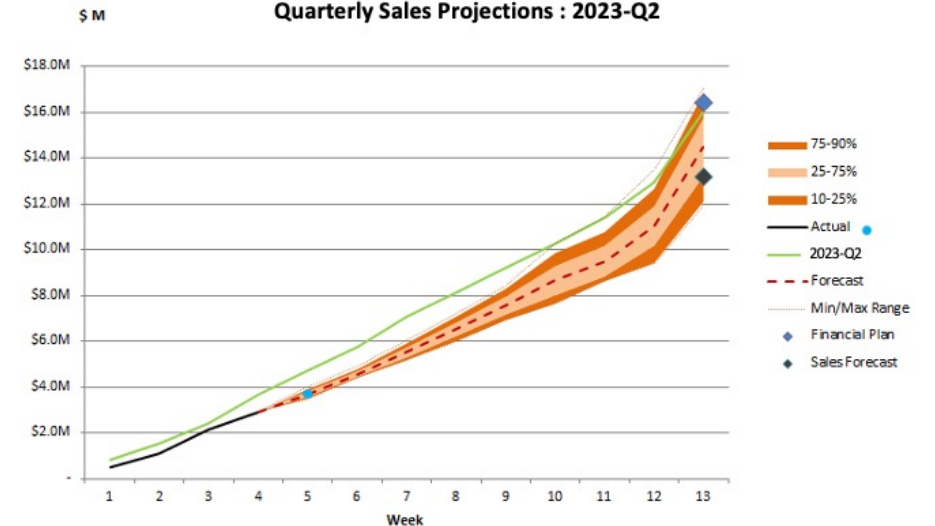
- ML model identifies patterns in past sales, product, & pipeline conversions w. repeatable technique
- Examines feature predictor sensitivity
- Use different models to capture different aspects of underlying behavior (combination best practice)
- Model performance measured through MAPE back-testing

Benefits:

- Better quality, confidence intervals, more actionable forecasts
- Improved understanding of demand dynamics
- Enhanced forecast accuracy improves downstream operations



Quarterly Sales Projections : 2023-Q2



Level of Effort: 12 - 14 weeks @ 3 resources

Opportunity Pipeline Win/Loss Predictive Model



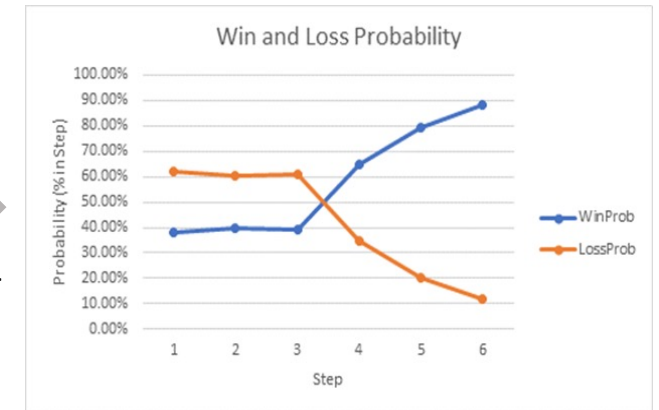
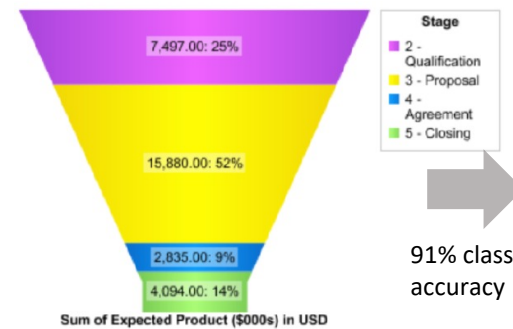
Benefiting Orgs: Sales, Marketing, Operations, Finance

Description:

- Provides process to assign each pipeline opportunity a probability of winning or losing
- Gives more accurate revenue prediction based on qualified opportunities
- Creates sophisticated logic for customer churn, product usage, and growth
- Implemented as tool for business owners by product, region, sector, etc.

Solution Summary:

- ML classification to predict pipeline conversion and rates
- Finds most important predictors from all opportunity features
- ML solution framework maps to client's business processes
- Model performance measured through MAPE back-testing



Benefits:

- Improved pipeline win rates
- Use likelihood info to qualify opportunities, early in cycle
- Use qualified opportunities to make revenue predictions
- Insights allow sales decisions for resource prioritization and increased effectiveness
- Deal closing accuracy benefits downstream operations

Level of Effort: 10 - 12 weeks @ 2 resources

M&A Operational Financial Performance



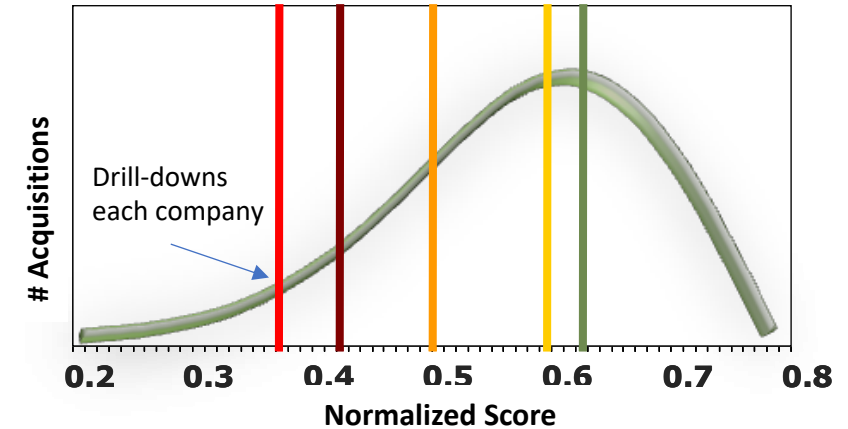
Benefiting Orgs: Finance, Corp. Dev., Operations

Description:

- Provides acquisition financial performance and weighted scoring model
- Provides M&A operational reporting and BI for companies
- Defines and measures key indicators statistics of acquisition success across HR, financials, product, processes, and systems.

Solution Summary:

- Provides visualizations of financial, GTM, HR/cultural KPIs
- Built ML weighted scoring model for deal similarity
- Allow leadership early insights into acquisition risks and success factors.
- ML solution framework maps to client's business processes



Benefits:

- Improved pipeline win rates
- M&A operational trend measurements
- Insights driven from forecasts/actuals
- Scoring model for predictive visibility of acquisition success
- Enables early corrective action in case of emerging issues

Level of Effort: 10 - 12 weeks @ 2 resources

Spare Parts Operations Improvements



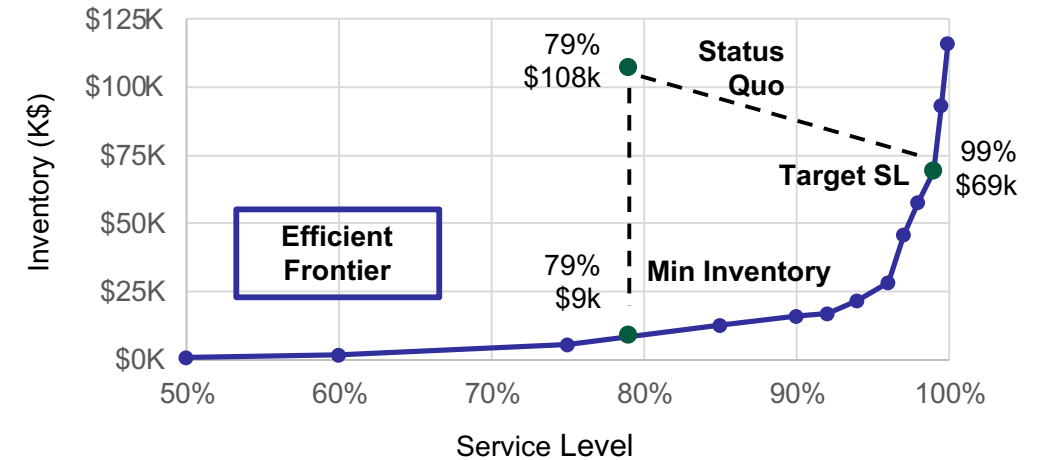
Benefiting Orgs: Finance, Supply Chain, Services, Operations

Description:

- Company's strategic goals is to structure spare operations to drive a profitable and reliable spare parts business
- Existing part classification and inventory policy hinders ability to meet business goals

Solution Summary:

- Designed framework for spare part classification & determined client specific inventory strategy based on operational criticality, inventory & ordering cost, lead time, and historical & projected usage
- Developed algorithm to allocate inventory to optimize aggregate service level by identifying parts with highest 'service level return on inventory investment'
- Implemented set of tools to (1) classify parts, (2) forecast parts usage, and (3) recommend inventory levels



Benefits:

- Reduced spare part classes that are stocked in depots to support service orders for nearby customer installations by 50%
- Improved service level by 20% while reducing inventory by 35% for selected parts
- Enables improved business processes

Level of Effort: 10 - 12 weeks @ 2 resources

Predictive Maintenance to Lower Product Returns



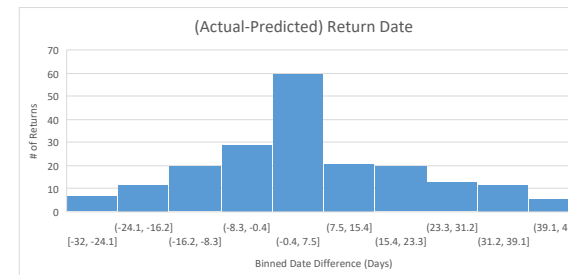
Benefiting Orgs: Finance, Supply Chain, Support, Operations

Description:

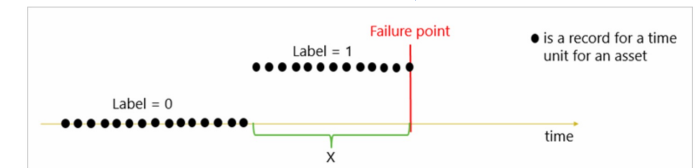
- Computer equipment company determined that RMA operational costs were increasing
- High rates of “No problem found” for returned products
- Objective to reduce service costs & increase asset availability

Solution Summary:

- Aggregated historical manufacturing test data on product failure rates
- Calculated segmented product failure rates and mean survival times.
- Designed system architecture to analyze live product sensor data (physical environment) and past problem categorization
- Built regression model to estimate probability of part failure as a function of time
- Built logistic classifier to predict failure within time windows



- Regression models predicted remaining useful lifetime
- Classification models predicted failure within a given time window



Benefits:

- Predicted repair date compares well statistically w. actuals
- Allowed tech support to estimate validity of reported problem
- Used to reduce unplanned downtime
- Connecting failures/reliability to IB used for demand purposes

Level of Effort: 12 - 14 weeks @ 2 resources

Device IoT Analytics to Improve Customer Support



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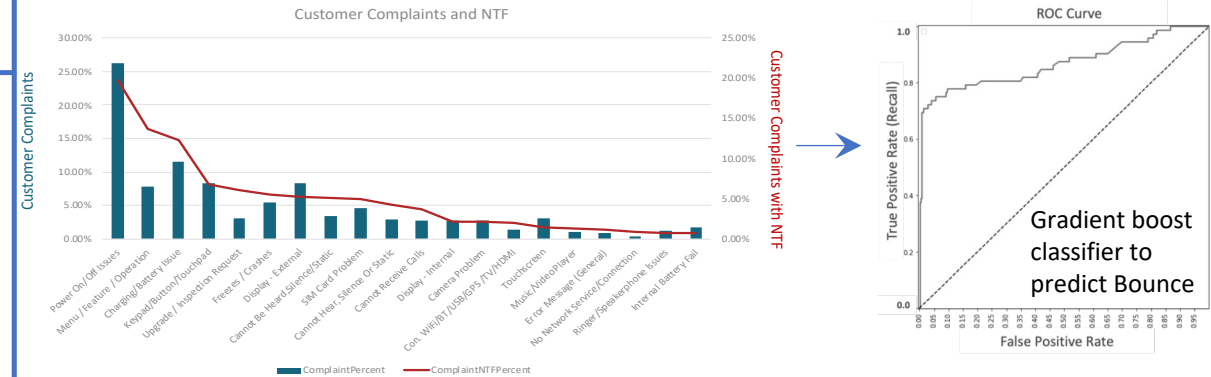
Benefiting Orgs: Support, Supply Chain, Operations

Description:

- High cost of mobile phone service repairs and process
- High rates of “No Trouble Found” and repeat issues (Bounce)
- Large customer dis-satisfaction with repairs resulting in legal escalations

Solution Summary:

- Analyzed existing baseline phone repair & case support data
- Constructed Google Cloud environment to analyze daily phone operational data (Tbytes/day)
- Designed solution framework to target battery failures and repair probabilities
- Built and tested multiple models for battery condition metrics, return reasons, failure modes, phone usage behavior
- Recommended highest-performing approaches for business process implementation and service technician dashboard



Benefits:

- Improved technician productivity
- Decreased Bounce (Repeat) Issues by 69%
- Lowered NTF rate by 44%
- Phone app usage clusters do not lead to statistically significant return rate differences

Level of Effort: 14 - 16 weeks @ 3 resources

Financial Analytics Workflow Automation



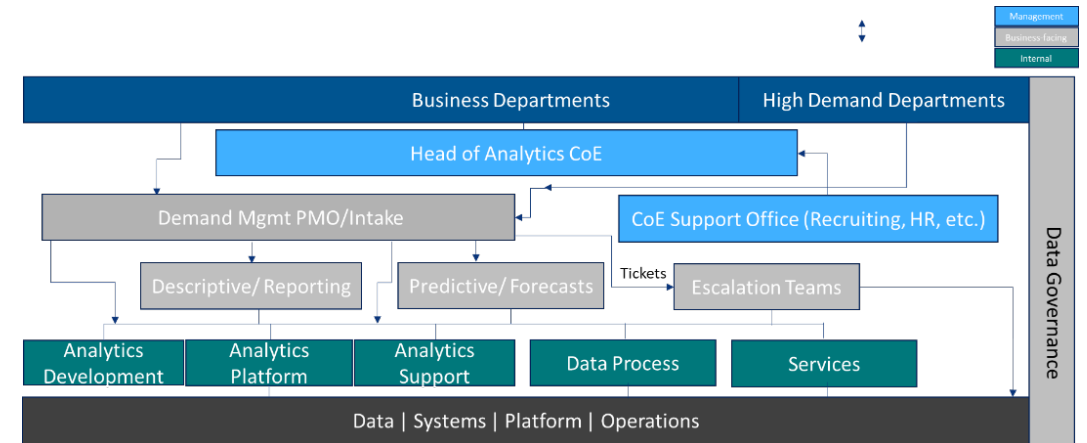
Benefiting Orgs: Finance, Operations

Description:

- Disparate non-standard processes for data aggregation & reporting
- Lack of trust in data and poor decision utility
- Pressure to expand markets and increase revenue

Solution Summary:

- Built Analytics CoE and led reporting team delivering weekly business metrics across 8 company departments.
- Implemented RPA automation with guardrails checks on top of Snowflake DW with Qlik reporting system
- Drove insights from forecasts/actuals, improved business decision speed and accuracy;
- Built M/M revenue and profitability trend forecasting



Benefits:

- Consistent financial reporting timeliness and accuracy
- Improved insights and business decision speed
- Ability to incorporate other data sources into analytics
- Aggregated and rationalized financial forecasts from different departments into a unified view

Level of Effort: 10 - 12 weeks @ 4 resources + ongoing