

Case Study: Revolutionizing National Sales Forecasting with AI Integration

Results of AI application:

- The implementation delivered transformational benefits across multiple dimensions:
- Process time reduction from a full work week to just 2 hours (97.5% time savings)
- Redeployment of 25 staff members to higher-value activities within the organization
- Increased forecast accuracy due to standardized data processing and validation
- Enhanced data reliability through consistent formatting and error checking
- Improved dealer compliance rates through systematic follow-up procedures
- Real-time visibility into forecast status across the dealer network
- More responsive business planning based on timely consolidated data
- Estimated annual cost savings of \$1.2M in labour costs and operational efficiencies
- ROI achieved within the first quarter following implementation

Situation

A national headquarters faced significant operational challenges in compiling their sales forecasts:

- Over 30 employees at the national headquarters were dedicated solely to the manual consolidation of sales forecasts from dealerships across the country
- Dealers frequently missed submission deadlines, creating unpredictable bottlenecks in the process
- The sequential nature of follow-ups meant staff spent excessive time making individual phone calls to chase missing submissions
- Excel's performance limitations became apparent when handling the volume of data across numerous tabs and spreadsheets
- The technical constraints resulted in slow processing times and frequent application crashes
- The entire forecasting process typically consumed a full work week, delaying critical business decisions and market responsiveness

Solution

The company implemented an innovative dual-approach solution leveraging AI technologies:

2.1. Automated Communication System

- AI-powered calling agents were programmed to contact forecast-responsible personnel at dealerships
- The system could make multiple simultaneous outreach attempts rather than sequential calls
- Each AI agent was equipped with natural language processing to explain requirements and answer basic questions
- The system tracked submission status in real-time and prioritized follow-ups based on urgency
- Automated reminders were scheduled at strategic intervals to improve compliance

2.2. Data Processing Transformation

- Implemented a data pipeline to transfer information from diverse Excel formats into Airtable
- AI algorithms were developed to recognize patterns across different dealer spreadsheet formats
- Machine learning models standardized inconsistent data formats and identified potential errors
- The Airtable solution provided superior scalability compared to Excel
- Cloud-based architecture allowed simultaneous access and real-time visibility into the consolidation process
- Automated validation rules flagged potential discrepancies for human review

