Revving up a call center outcomes via data insights

25% reduction in missed calls

30% faster response times

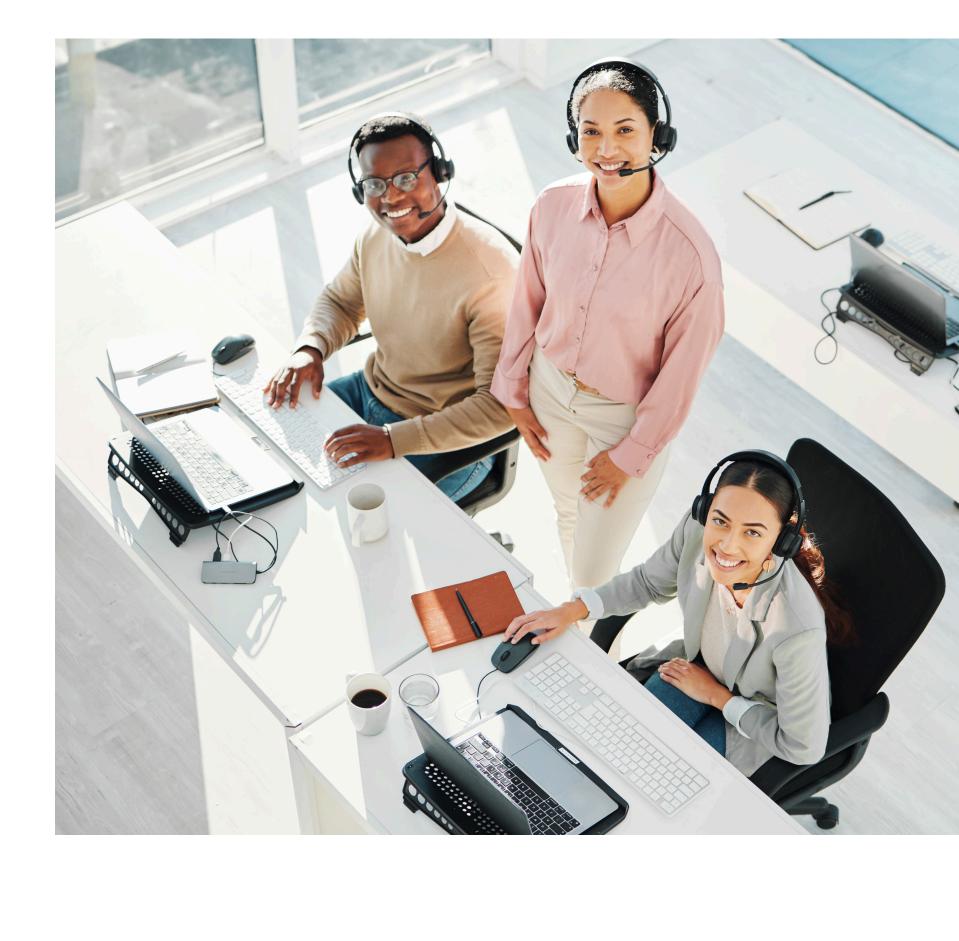
20% increase in loan application completion

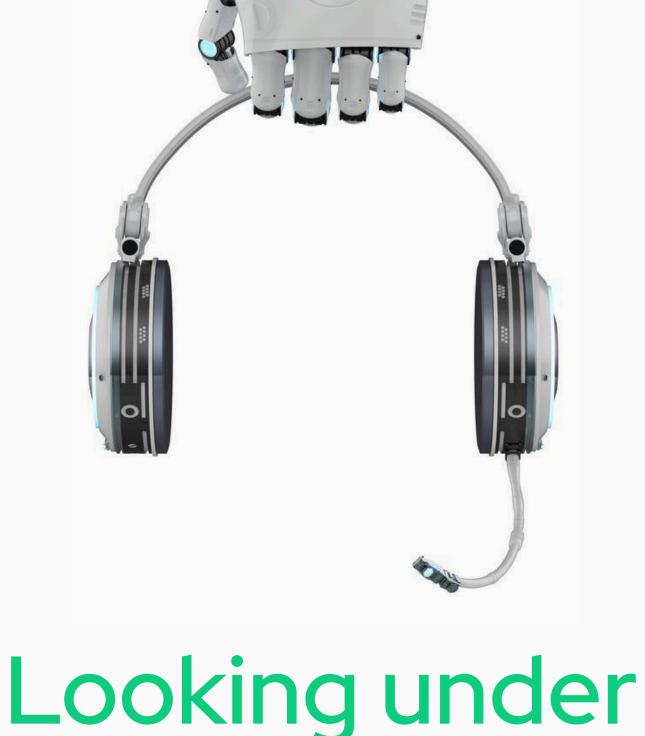
About Auto Approve Auto Approve is a leading provider of auto loan refinancing

in the United States. Its innovative platform helps clients secure lower interest rates and boost their economic wellbeing by restructuring their vehicle loans.

With a strong industry presence, the company has helped thousands optimize their budgets with accessible, tailored loan solutions.

However, it faced missed opportunities within its Call Center, reflected in an 80% dropout rate for loan applications and 10% of calls going unanswered. These inefficiencies pointed to the need for an optimization strategy aimed at enhancing operations and increasing customer conversions.





the hood of the call center

to reach its full potential. Key challenges included: High volume of unanswered inquiries – On peak days, nearly 1,000 calls related to applications went unaddressed.

However, operational inefficiencies hindered the team's ability

The Call Center is the company's primary channel for

connecting with clients and generating financing leads.

- Incomplete interactions Agents struggled to provide clear, complete answers to borrowers.
- Inaccurate information Errors led to confusion and a
- Missing documents Many applications were delayed due to incomplete paperwork.

poor customer experience.

- Lost opportunities The lack of an efficient workflow resulted in valuable leads being missed.
- These challenges underscored the need for more staff during peak hours and better access to product details and customer records to enhance service quality and efficiency.



approach Our team at Making Sense collaborated closely with Auto Approve's Call Center to develop an Al-powered data infrastructure that generates key insights. This system

streamlined operations, enhanced decision-making, and

The Making Sense

significantly increased conversion rates by addressing the identified inefficiencies.

Al has taken the business world by storm, offering key For this project, we saw a clear need to glean data to make informed decisions about Call Center advantages such as efficiency. However, too many companies rush into machine learning and Al without operations. In customizing machine learning model data pipeline, our goal was to bring together key

All systems go for Al

thoughtfully analyzing its best use cases. At Making Sense, we specialize in identifying areas where data and AI can drive actionable and top-value insights for your specific business goals.

overall ROI.

points to maximize Call Center efforts and increase

Our vision was to harness key business insights by leveraging data science and machine learning best practices. **Key Features**

Charting a course

for an Al-Driven Solution

· Develop hypotheses on the reasons behind Identify friction points in the loan refinancing the churn rate

Define valuable and unanswered business questions

process

- Action Items Call Center Optimization

Identify outliers related to data quality and

· Determine opportunities for process and

resource optimization

Data Solution Setup

Establish long-term business goals

Calculate the best times when and how

many agents should be present to take calls Understand reasons behind missed calls and

Identify the best use of agent efforts

- why customers don't attend calls Grant access to better knowledge that agents can share to improve campaigns
- improvement in Call Center workflows Add value for decision-makers on an ongoing basis
- Identify other opportunities for

• Deliver a report with insights to trigger datadriven business decisions Provide a scalable solution that can be

make necessary corrections

business information

adapted regularly to provide up-to-date

objectives and KPIs. Our main aim was to ensure alignment with real business needs. During this ideation process, we also addressed concerns regarding secure data access, while understanding the priorities and

We hit the ground running to identify and prioritize

Ideation and Understanding

Strategic steps

Once we prioritized business objectives and KPIs, we needed to dig into the data, including where it was hosted, how to securely access it and which data

Get Access to Secure Data

needs for the next phases.

streams were relevant to the case. **Come Up With Hypotheses to Validate** From here, we worked with internal Call Center specialists to consider business questions aligned with

their key objectives. We discovered 16 hypotheses and

individual cost-benefit ratio. As a result, we prioritized

questions, which we then ranked according to their

Complete Real Data Analysis Next, we used industry-leading practices in data science to evaluate the hypotheses. In our analysis, we identified patterns of behavior and adjusted the data

five hypotheses for further evaluation.

Our tech stack decision

as needed. We also identified inconsistencies and

outliers to avoid reaching incorrect conclusions.

We constructed data pipelines to make our process reproducible on an ongoing basis. With a customized pipeline, we could observe and manipulate the data in a consistent manner. This helped in reproducing the steps that get us valuable insights, while allowing corrections to flow back into new insights.

Create Data Validation Models

We created a few models that we used for validations

predicted behaviors on a subset of the data, which we

validated with the remaining data that the models had

generalizing to the whole of the data. The insights on

not yet seen -- ensuring that our models are really

of our hypotheses. These models analyzed and

Create Data Pipeline

generalities that these models predict are key indicators of the observed behavior, whether it is to improve current practices or to gain knowledge about hidden parts of the call center process.

these models are now business insights: the

Set Up Ongoing Reports Finally, we harnessed these data-driven insights for our main business questions. While some had one-shot answers, others were best captured through ongoing reporting. To this end, we set up a smart report to give this company easy access to information collected by their data pipeline. This became a key element of their company's ecosystem to check assumptions periodically and incorporate high-impact data into their decision-making processes.

Impact & business

NumPy

operational efficiency by leveraging data science and machine learning. Its Al-powered solution provided actionable insights, aligning with key business objectives and KPIs, that enabled Auto Approve to optimize Call Center operations, enhance

suboptimal resource allocation.

times and accuracy.

Making Sense drove a transformative improvement in

outcomes

Metabase

decision-making, and drive better business outcomes. Key insights uncovered through machine learning: The technology uncovered that calls not only extended far beyond the average duration—lasting over three hours—but

prospects. Agents lacked access to real-time data, which caused delays in responding to customer inquiries. The implementation of

a centralized data pipeline significantly improved response

introducing automated document requests, streamlining the

Document collection bottlenecks were addressed by

also failed to generate any qualified leads, resulting in

• Many uninterested customers hung up within the first 10

seconds, allowing Auto Approve to refine its lead

qualification process and focus on better-targeted

application process.

Making Sense stands out as a strategic technology

understanding of how technology drives business

success, the company specializes in aligning digital

partner, not just a service provider. With a deep



by 20-30%.

directly impacting revenue.

retention and satisfaction.

pandas



100000001

learn

The focus on data-driven insights allowed the company to:

• Increase loan application completion rates by 15-20%,

• Reduce missed calls by 15-25% and improve response times

Enhance customer experience scores by 10-15%, improving

Improve call handling efficiency, reducing time spent on

unqualified leads and optimizing agent workflows.

- Why Making Sense?

What sets Making Sense apart is its approach: a blend

integrating agile methodologies with a nearshoring

of technical excellence, strategic insight, and a

commitment to long-term partnerships. By

solutions with real-world business objectives. Its model tailored for efficiency and collaboration, Making Sense helps businesses turn complex expertise in software development, UX, cloud, AI, and challenges into scalable, high-impact solutions.

automation enables organizations to modernize, scale, and innovate effectively.

Transforming ideas into scalable solutions—ready to start? Let's connect and make it happen.