

# AI Use Case Library

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## Sample Extract - Customer Service Automation

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STRATIFY WATERMARK - SAMPLE DOCUMENT

### Use Case #47: Intelligent Customer Service Chatbot

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#### Overview

**Industry:** Multi-industry (applicable to 85% of B2B/B2C companies) **Complexity:** ★★☆☆ (Medium) **Time to Value:** 3-6 months **Typical ROI:** 250-400%

#### Business Problem

- Customer service costs growing 12-15% annually
- Average handle time: 8-12 minutes per inquiry
- First-call resolution rate: 65-75%
- Agent turnover: 30-40% annually

#### AI Solution Architecture

**Technology Stack:** - Large Language Model (GPT-4, Claude, or Llama 2) - Vector database (Pinecone, Weaviate) - Knowledge base integration - Sentiment analysis - Intent classification

**Implementation Approach:** 1. Knowledge base preparation (4 weeks) 2. Model fine-tuning (3 weeks) 3. Integration & testing (4 weeks) 4. Pilot deployment (2 weeks) 5. Full rollout (3 weeks)

# Financial Impact Analysis

**Company Profile:** Mid-market SaaS, 5,000 monthly support tickets

Metric	Before AI	After AI	Improvement
Tickets handled by AI	0%	60%	+3,000 tickets/month
Avg handle time	10 min	4 min (human)	60% reduction
First contact resolution	70%	85%	+15pp
Customer satisfaction	78%	89%	+11pp
Annual support cost	1.2M   680K	\$520K savings	

**ROI Calculation:** - Implementation cost: \$150K - Annual savings: \$520K - Year 1 ROI: **247%** - Payback period: **3.5 months**

## Vendor Recommendations

**Enterprise Solutions:** 1. **Intercom (Score: 9.2/10)** - Best for SaaS companies 2. **Zendesk AI (Score: 8.8/10)** - Best integration ecosystem 3. **Ada (Score: 8.5/10)** - Best for e-commerce

**Build vs Buy Analysis:** - Build: 250K—500K, 6-9 months - Buy: 50K—150K, 2-3 months - **Recommendation:** Buy for 90% of use cases

## Risk Factors & Mitigation

Risk	Probability	Impact	Mitigation Strategy
Poor knowledge base quality	High	High	Invest 200+ hours in KB curation
Low user adoption	Medium	High	Gradual rollout with human fallback
Hallucination/errors	Medium	Medium	Confidence scoring + human review
Integration complexity	Low	Medium	Use pre-built connectors

## Success Stories

**Case Study: TechFlow Solutions** - Industry: B2B Software - Employees: 450 - Results: 68% ticket deflection, \$890K annual savings, 4.2-month payback

## What's in the Full Library (200+ Use Cases)

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✓ 200+ documented AI use cases across 15 industries ✓ ROI calculators for each use case ✓ Vendor recommendations with pricing ✓ Implementation playbooks ✓ Risk assessment matrices ✓ Success metrics & KPIs ✓ Integration architecture diagrams

 **Purchase Full Library - \$249**

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