

AI

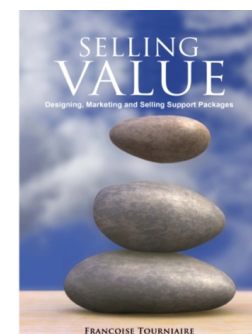
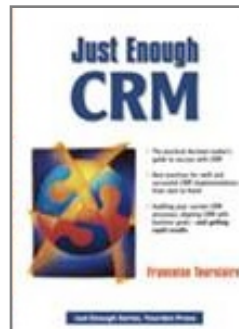
The Future of Support

TSAnet © FT Works 10/2019

About FT Works

- A boutique consultancy firm
- Founded in 1998
- That helps technology companies improve their support operations
- A thought leader

FTWorks
smarter support SM



What is AI/ML?

Machine learning

- Infers patterns from data
- Requires training data
- Enables AI



Artificial intelligence

- Makes predictions or decisions *without* explicit instructions for how to perform the task

The Bad Old Days

- Can you help find stuff in the knowledge base?
- Can you pretend-chat with me?



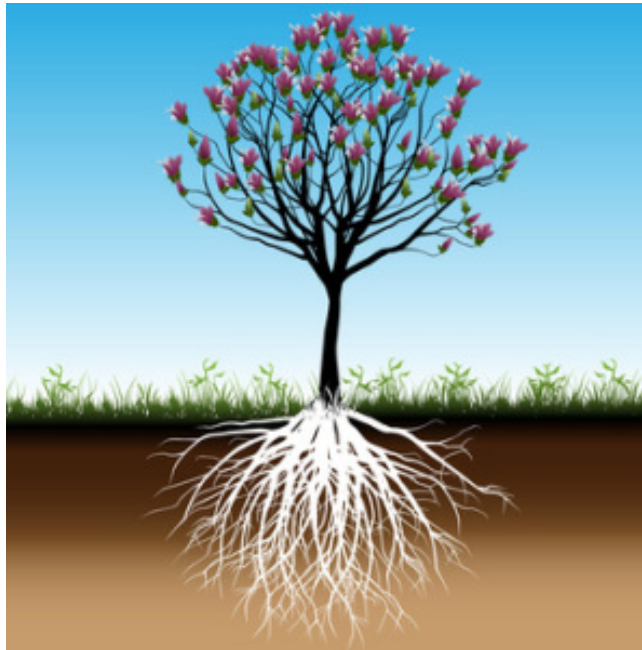
Shallow Support

~ Kahneman's System 1

Fast

Pattern-matching

Emotional



~ System 2

Slow

Methodical

Differential diagnostic

Deep Support

The Bad Old Days

- Can you help find stuff in the knowledge base?
- Can you pretend-chat with me?

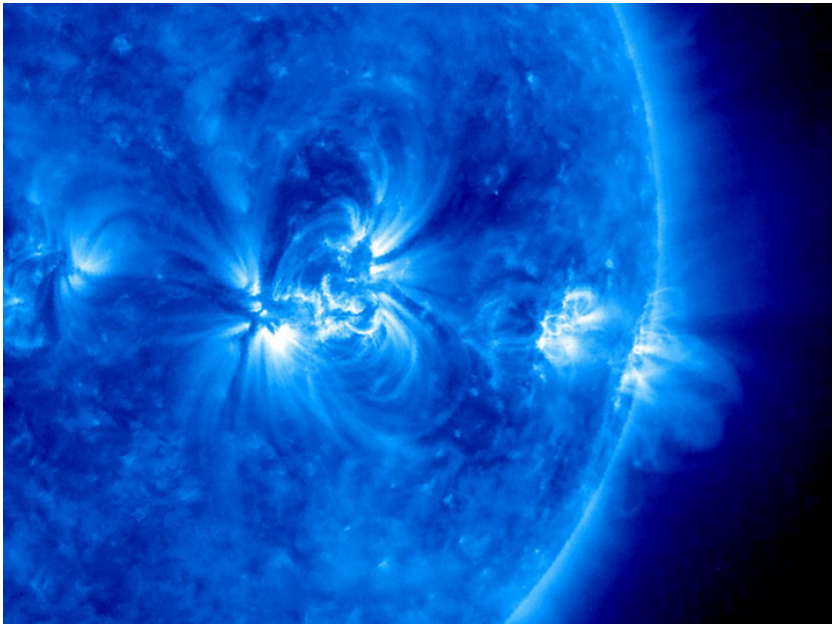


The Good New Days

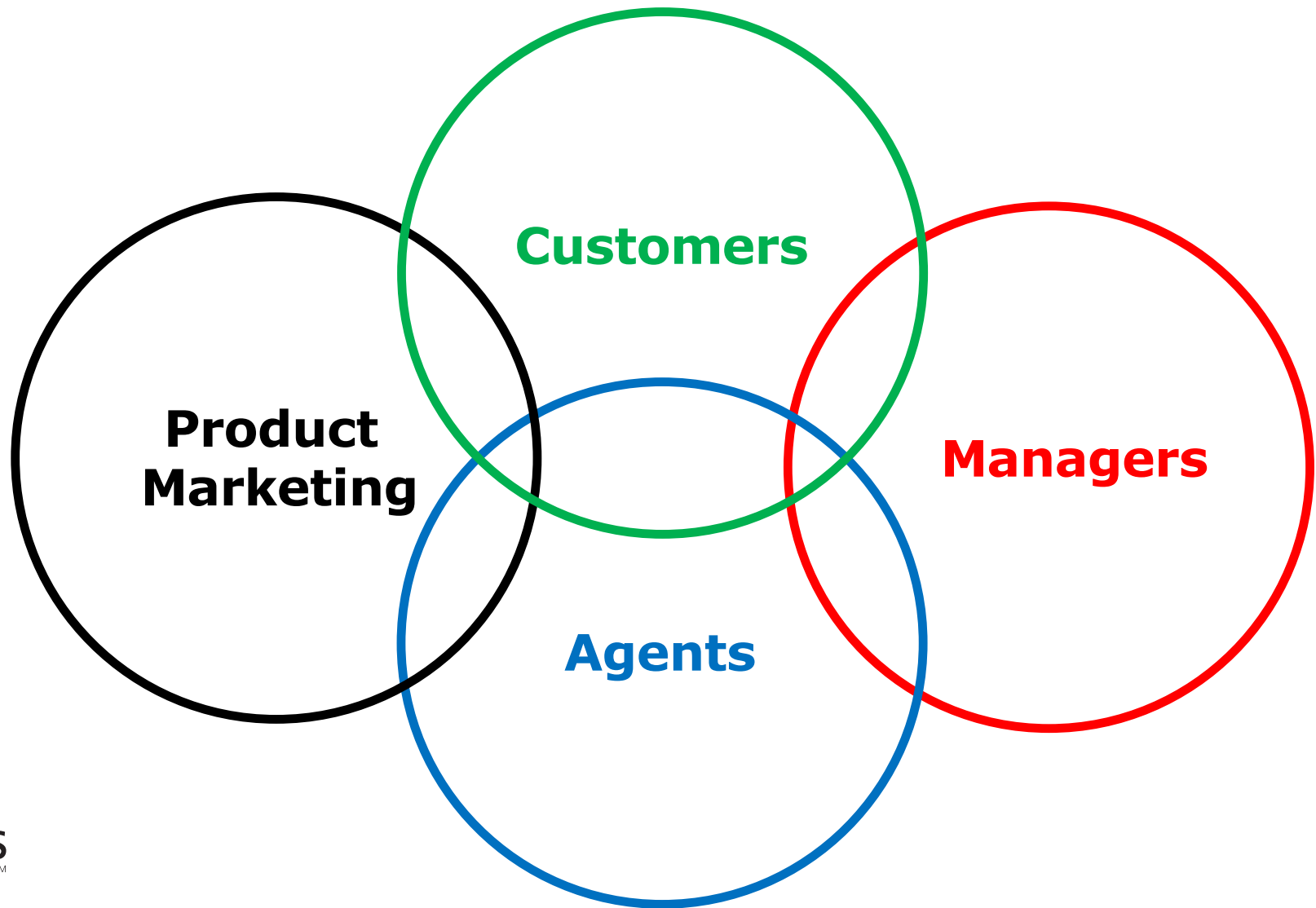
- Is this customer an influencer?
- Will this case escalate?
- Can this support engineer defuse angry customers?
- Is the UI of productX confusing?



The Crazy Dreams



- Eliminate all cases
- Diagnose brand-new issues
- Identify problems without reading logs
- Outperform support engineers at all tasks



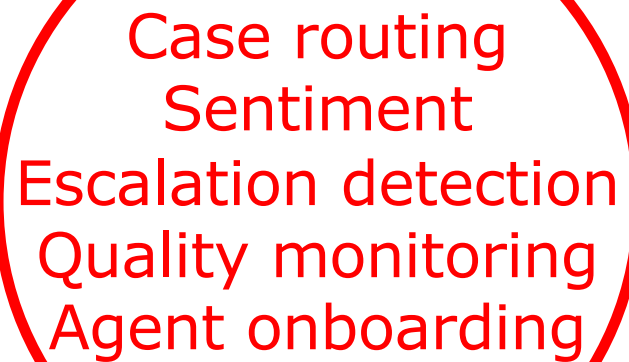
AI for Customers



AI for Customers

- AI-powered search
 - Unified search
 - E.g. Coveo, IBM Watson
- Suggestions based on history
 - Watch this video
 - Purchase this service
- Determine the urgency of a request
 - Based on description, customer history

AI for Managers

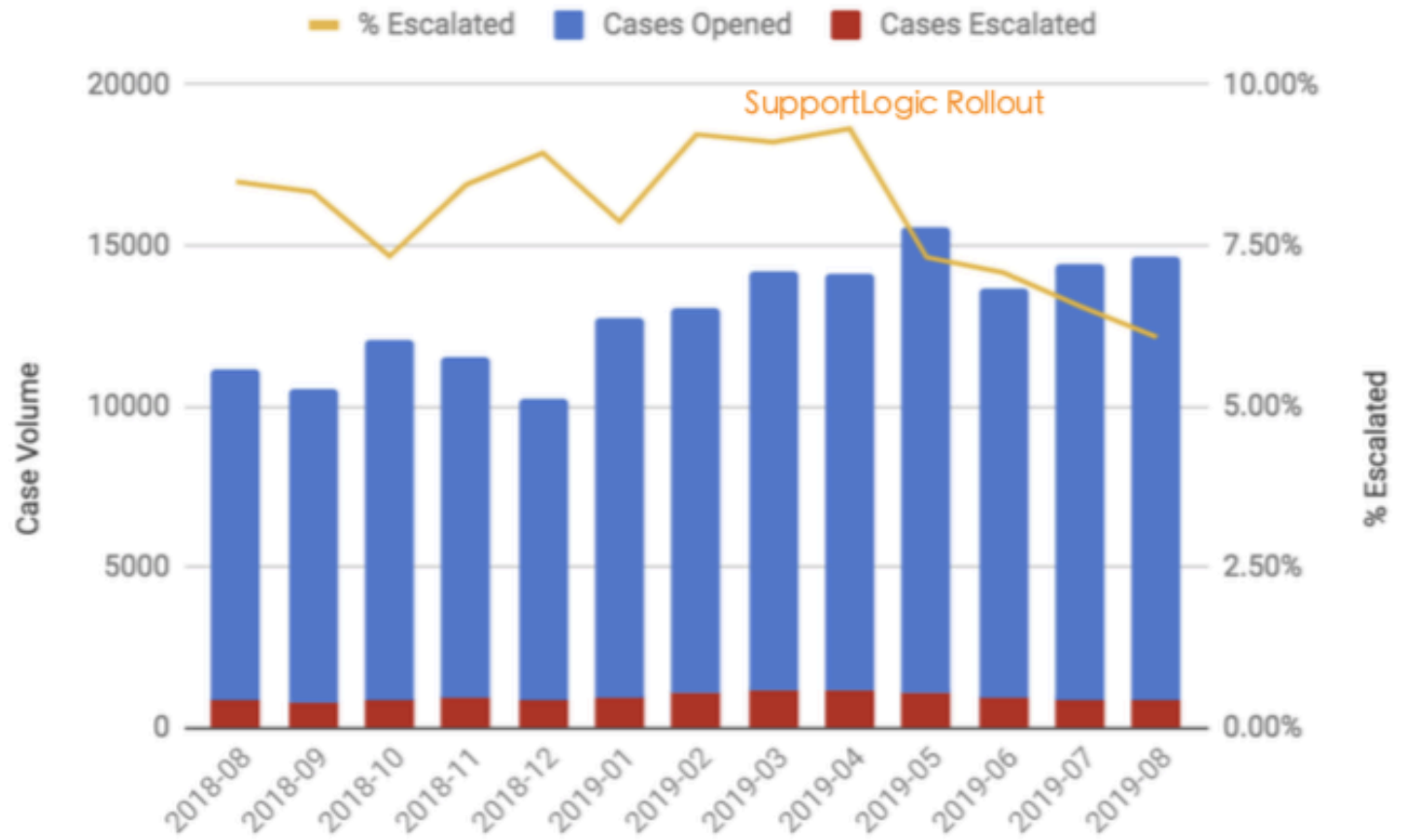


Case routing
Sentiment
Escalation detection
Quality monitoring
Agent onboarding

AI for Managers

- Case routing
 - Eliminate queue managers
 - Route by description, customer background, recipient
 - E.g. route demanding customers to experienced agents; bypass level 1 for expert customers
- Sentiment management
 - Faster (and more effective?) than case reviews
- Escalation detection
 - Transform a reactive escalation into a proactive one

Sentiment & Escalation Detection

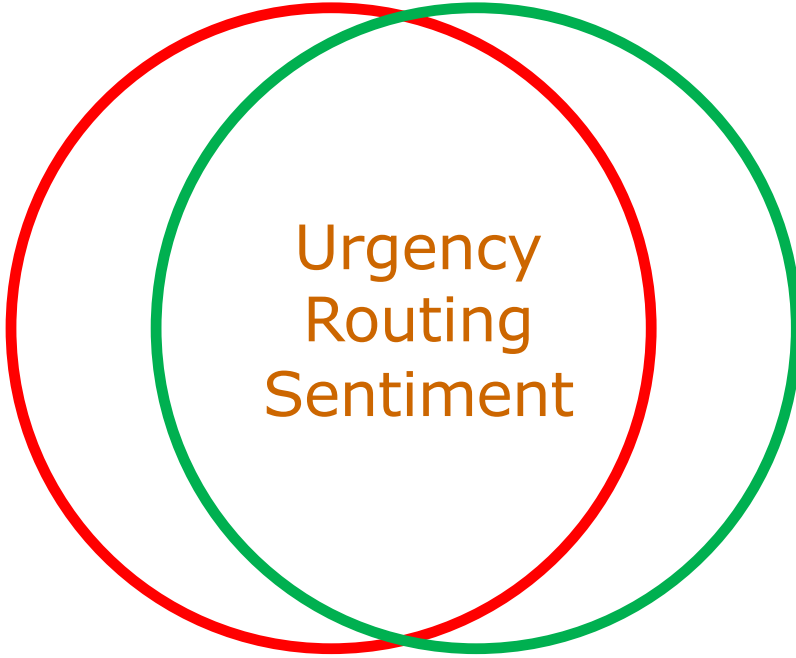


AI for Managers

- Quality monitoring
 - Review *all* cases, immediately
 - Aggregate across teams
- Onboarding
 - What do new hires really need to know?
 - Leverage case routing to assign easier cases
- And also
 - Scheduling
 - Dynamic reassignments


Blending

Escalation detection
Quality monitoring
Agent onboarding



Self-service
Training suggestions

AI for Agents



Contact intel
Case management
Troubleshooting

AI for Agents

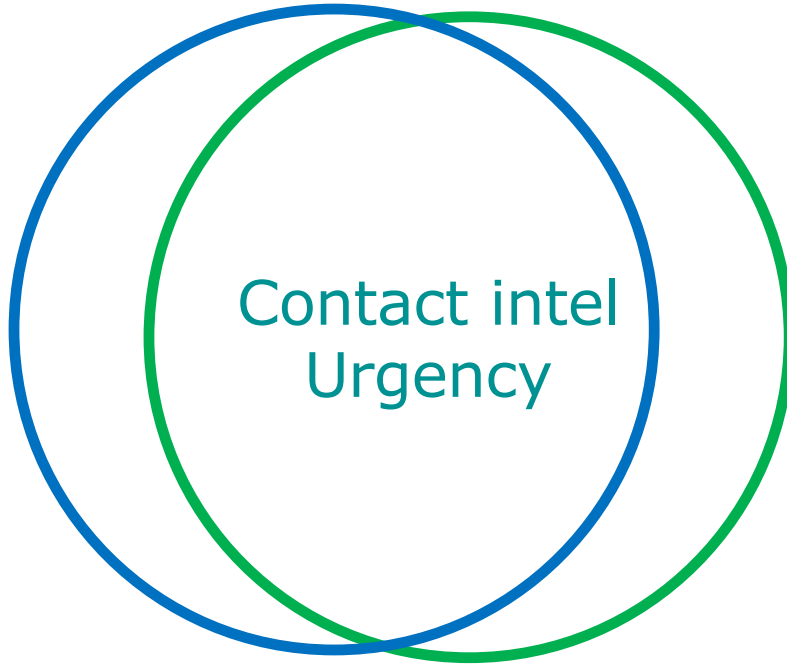
- Contact intel
 - Is the customer technically knowledgeable?
 - Is the customer demanding?
 - Does the customer prefer chat or phone?
 - Does the customer escalate easily and when?
 - Is the customer upset?
 - Did the customer just start a new job?
 - Is the customer an industry influencer?

AI for Agents

- Case management
 - What case should I work on next?
 - Should I transfer this case? To whom?
 - What are my outstanding commitments?
- Troubleshooting
 - Automated log analysis
 - Deep problem solving/differential diagnostic

Blending

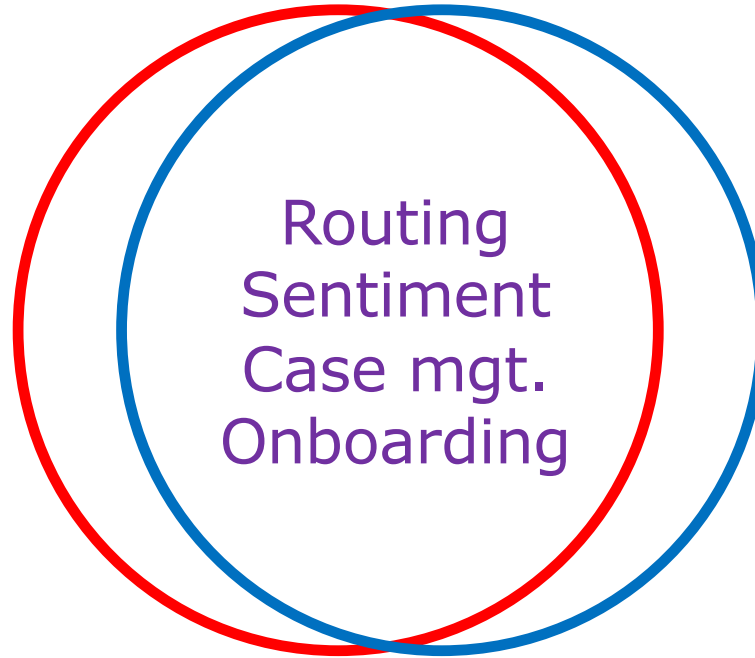
Case management
Troubleshooting



Self-service
Training suggestions

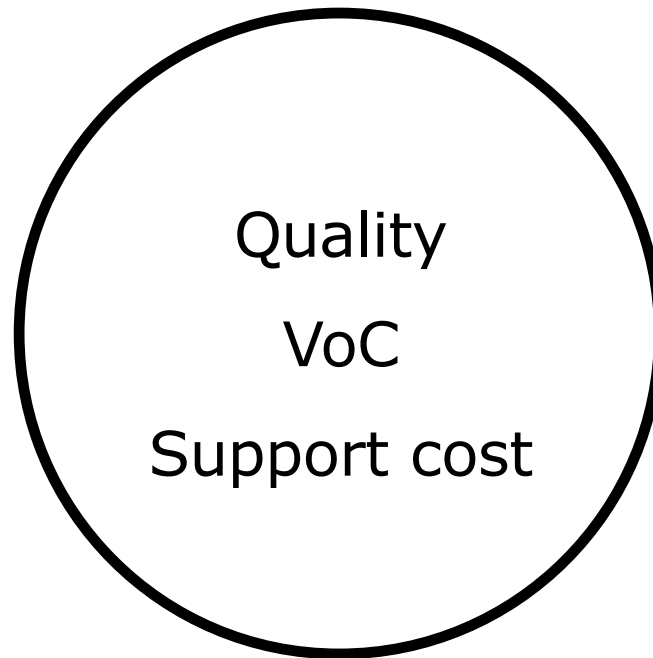
Blending

Escalation detection
Quality monitoring



Contact intel
Troubleshooting

AI for Product Marketing



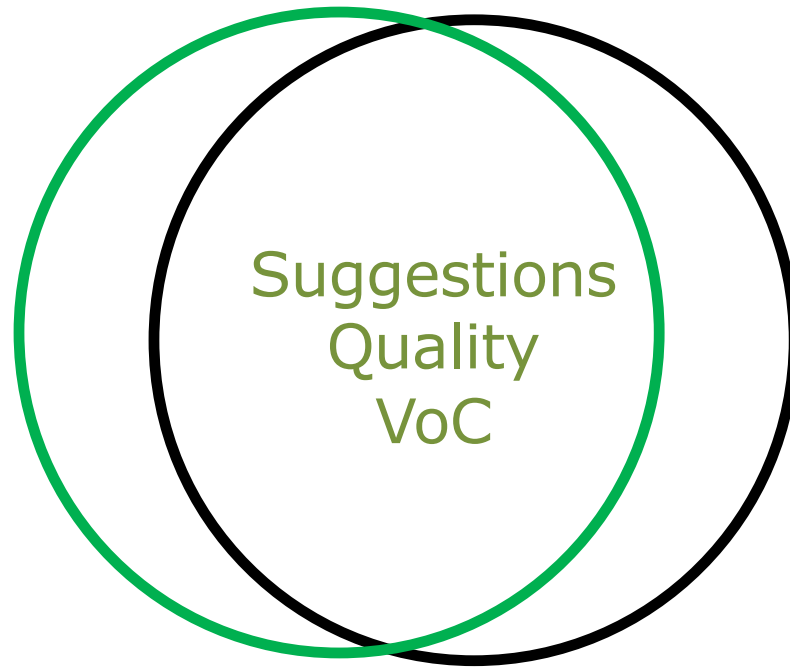
AI for Product Marketing

- Why do customers contact support?
- What product changes matter most?
- How much does it cost to support release 13.2?

Without manual tagging

Blending

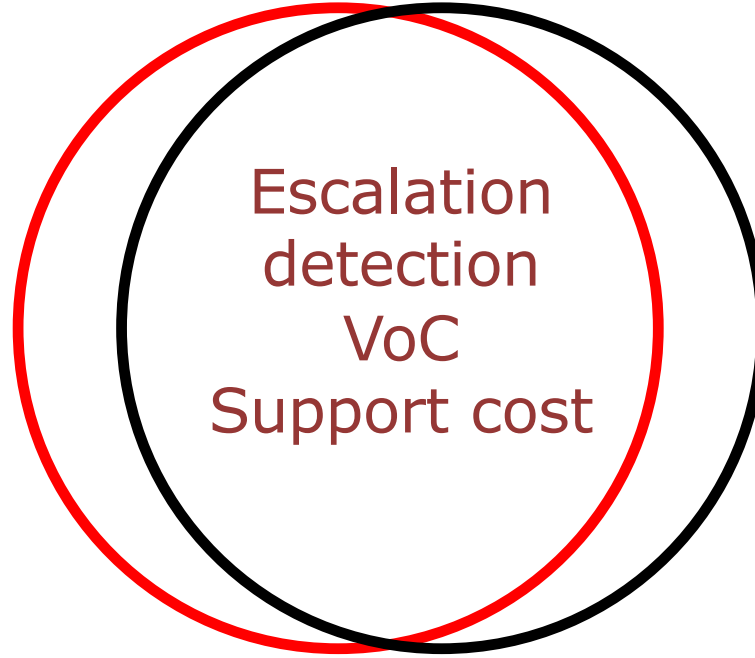
Self-service
Urgency



Support cost

Blending

Routing
Sentiment
Escalation detection
Quality monitoring



Quality



- You need a large set of training data
- You need to understand the data and the business deeply
- Classification matters



- Confirm your goal(s)
- Develop a model
 - Vendor
 - Your own
- Train the model
- Enjoy



Thank you



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