

Milestone 2:

## Capstone Final Report

Project Title:

# ClaimChampion

## Intelligent Consumer Advocacy Solutions



Capstone Group Number:

**Group 9**

Group Members:

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# 1. Company Description

## Mission Statement:

**Our mission is to put trusted intelligent agents in the hands of consumers**, slice through the red tape of health insurance, champion their rights, and ensure fair treatment. **By leveraging autonomous agents paired with human expertise, we resolve disputes quickly, effectively, and with a lasting impact**, providing a persistent and meaningful advocacy service.

## Vision:

**To become the leading consumer advocacy service** that empowers individuals by transforming customer service experiences worldwide.

## Philosophy:

We believe in **empathy, kindness, fairness, persistence, feedback, and innovation**. ClaimChampion values transparency, consumer empowerment, and using technology to simplify and enhance lives.

## Company Goals:

### Short-Term Goals:

- Within one year, develop and launch a highly functional version of the ClaimChampion AI platform, tailored to the **healthcare insurance market**.
- **Establish 5 key partnerships** with consumer advocacy groups and insurance companies to increase expertise, credibility, and trust.
- Achieve **150,000 active users within the first year** after launch.

### Long-Term Goals:

- Expand into 5 major sectors **beyond health insurance, such as telecom, utilities, and retail**, within 3 years.
- Reach **1 million active users within 5 years**, becoming the leading AI-driven consumer advocacy service.
- Achieve **break-even within 2 years** by implementing both subscription and add-on revenue models.

## Industry:

The consumer advocacy and customer service automation industry is rapidly growing due to advancements in AI and NLP/NLU. **Valued at \$8.4 billion in 2022**, the customer service automation market is **projected to reach \$24 billion by 2030** (CAGR of 14.5%). The conversational AI market is expected to grow from **\$6.8 billion in 2023 to \$18 billion by 2030** (CAGR of 16.5%), **driven by the demand for personalized service and reduced wait times.**

The **healthcare sector** presents a significant opportunity for ClaimChampion, with **30% of Americans experiencing medical billing issues annually**, and up to **80% of bills containing errors**. The **CX management market** is also **expected to grow from \$11.3 billion in 2022 to \$32.5 billion by 2030** (CAGR of 14.7%), as companies emphasize customer retention.

**By 2028, 85% of customer interactions are expected to be handled without human intervention.** Despite competition from chatbot providers and legal AI tools, ClaimChampion's focus on healthcare billing disputes and its commitment to continuous, multi-channel engagement offers a distinct competitive advantage. **Combining AI with human expertise, ClaimChampion provides a unique, empathetic approach to resolving disputes effectively.**



## 2. Problem Statement

### Identifying the Need:

Consumers frequently face long wait times, ineffective customer service, and complex corporate systems when attempting to resolve issues such as coverage, service complaints, or bill disputes.

The **existing customer service infrastructure** – including call centers and chatbots – **is often insufficient, leading to frustration and unresolved complaints.**

Current solutions lack persistence and efficiency, forcing consumers to spend time and energy that could otherwise be focused on more productive and enjoyable pursuits.

**Our focus is on Health Insurance as an initial area of impact, addressing billing disputes, claims coverage issues,** and other related service problems.

### Challenges in Solving the Problem:

#### 1. **Long Wait Times:**

Consumers experience long wait times when contacting customer support, which leads to time wastage and frustration.

#### 2. **Corporate Deflection Strategies:**

Companies use tactics like ineffective chatbots, limited contact options, and prolonged procedures to deter complaints, which dissuades consumers from pursuing valid disputes.

#### 3. **Complex Processes:**

Escalation processes are often convoluted and vary widely across industries, making it difficult for consumers to navigate.

#### 4. **Verification and Data Security:**

Navigating different authentication systems for each company and ensuring that consumer data remains secure are major technical challenges.

### 3. Solution at a Glance

#### Proposed Solution:

The proposed solution is an AI-powered consumer advocate service called ClaimChampion that **automates customer service interactions to resolve disputes, save time, and reduce frustration.**

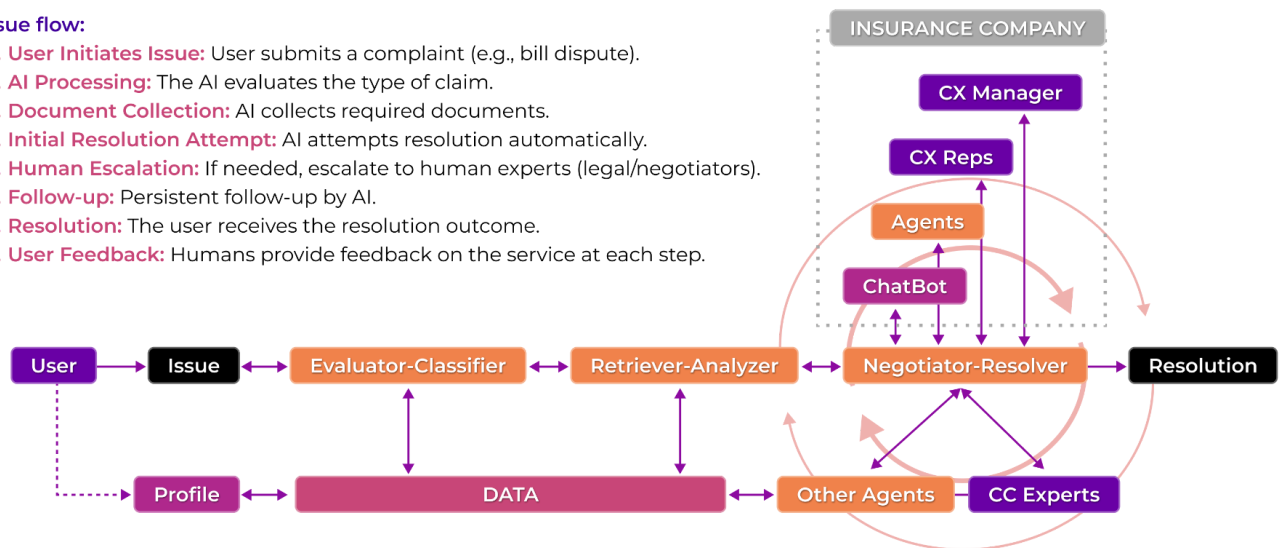
#### An ecosystem of AI Agents, acting in concert, on behalf of users by:

- Gathering documentation, maintaining records, and managing communications.
- Engaging directly with corporate customer service via voice calls, emails, chatbots, apps, social media, and websites.
- Persistently retrying and following up across multiple channels until a resolution is achieved, escalating issues to higher authorities when necessary.

#### Issue Resolution Flow:

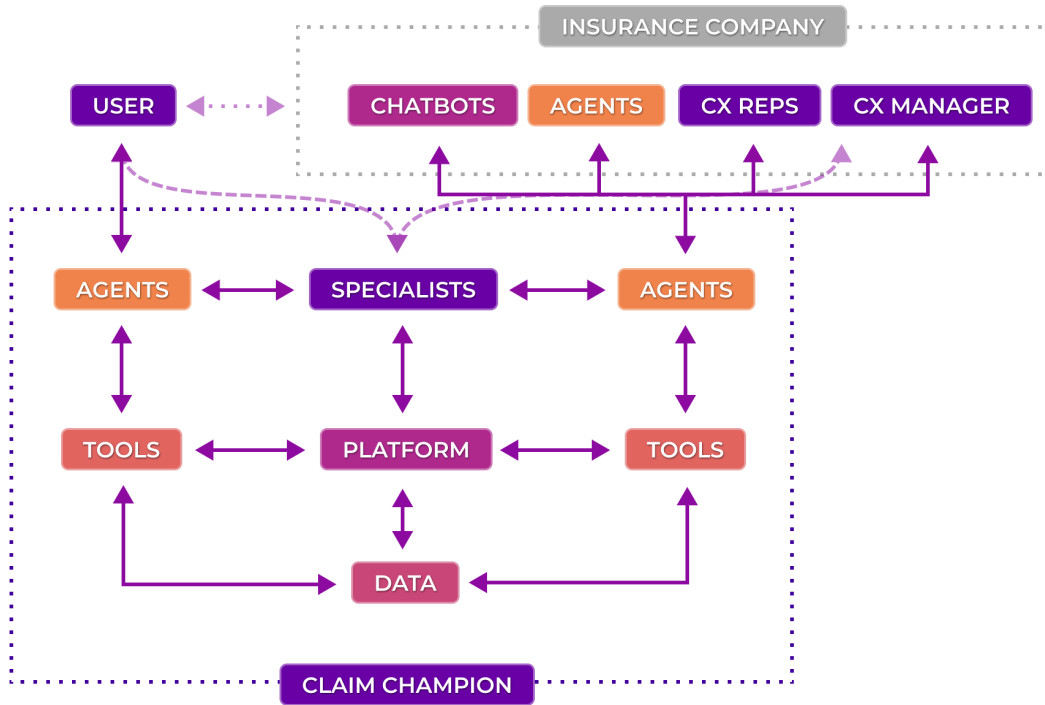
##### Issue flow:

1. **User Initiates Issue:** User submits a complaint (e.g., bill dispute).
2. **AI Processing:** The AI evaluates the type of claim.
3. **Document Collection:** AI collects required documents.
4. **Initial Resolution Attempt:** AI attempts resolution automatically.
5. **Human Escalation:** If needed, escalate to human experts (legal/negotiators).
6. **Follow-up:** Persistent follow-up by AI.
7. **Resolution:** The user receives the resolution outcome.
8. **User Feedback:** Humans provide feedback on the service at each step.



Genericized omni-channel flow of a user issue as it is processed by agents, which repeatedly interact with insurance entities until a resolution is obtained. Multiple feedback loops, both manual and automated, reinforce learning.

## Systems interactions:



Ecosystem of interactions where agents use logic, tools, and coordinate to complete tasks.

## Agentic System Objects::



Platform solution layers of system objects: agents, tools, data, systems, and people.

## Why Agentic RAG Solutions Are Effective:

- **Enhanced Contextual Understanding:**

RAG integrates external knowledge sources into generative responses, ensuring up-to-date and relevant content. This improves accuracy compared to traditional generative models relying solely on training data, making it particularly useful in scenarios requiring nuanced information processing. Retrieval-based evidence also reduces hallucinations, providing a factual foundation for trustworthy outputs.
- **Autonomous Reasoning and Decision-Making:**

Agentic AI systems can independently analyze data, make logical, informed decisions, breakdown and execute tasks without constant human oversight. This autonomy enables them to handle complex, multi-step processes efficiently.
- **Complex Task Execution and Coordination:**

Unlike traditional AI, which often handles simple, rule-based tasks, agentic AI can manage intricate workflows. breaking down complex objectives into manageable steps, plans actions, and executing them, making it valuable for tasks like personalized customer service.
- **Integration with Tools and Existing Systems:**

Agentic AI can interact with various tools and platforms, integrating seamlessly into existing workflows. This capability allows organizations to enhance their operations without overhauling their current systems.
- **Adaptability and Continuous Learning:**

Agentic AI uses numerous feedback loops from humans and iterative learning to enhance accuracy, adapt to changing environments, and refine performance over time, making it well-suited for dynamic and unpredictable scenarios.

## Unique Selling Proposition (USP):

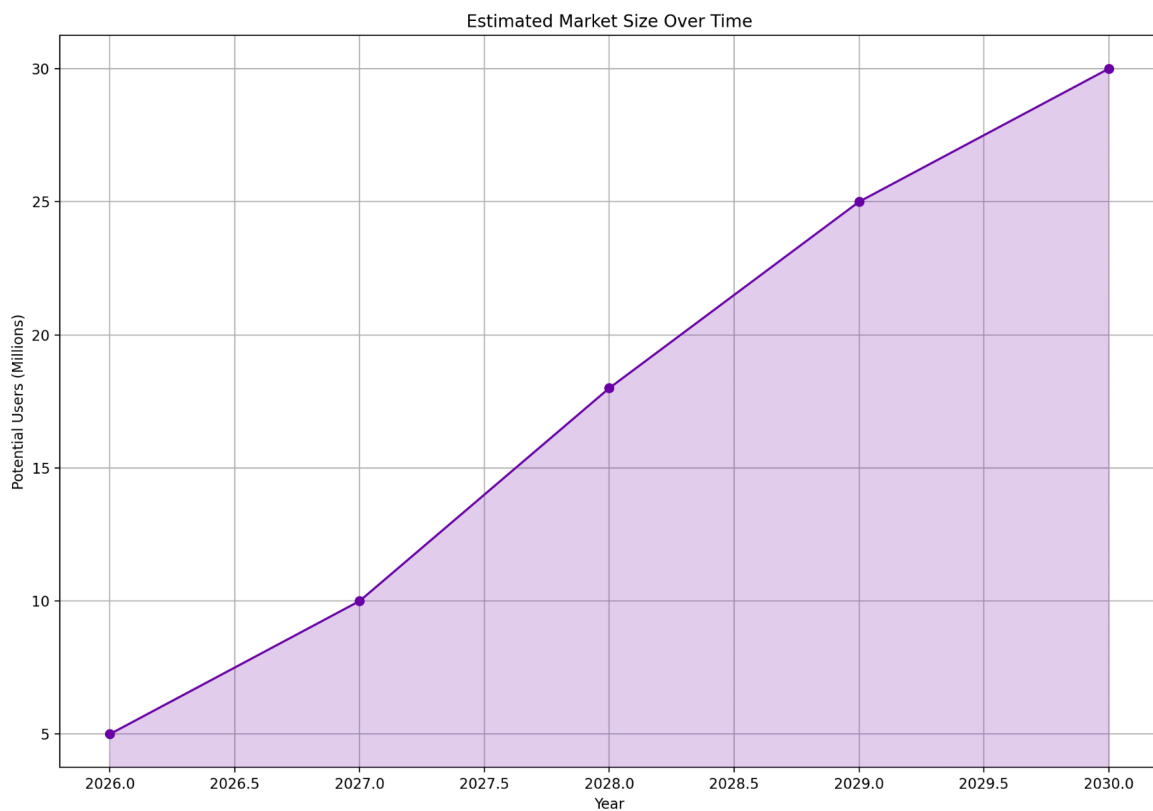
ClaimChampion's ability to persistently follow up across multiple channels (phone, email, chat, social media, web) until resolution, combined with end-to-end automated dispute handling with minimal user effort and pain, sets it apart from existing solutions. Expert human oversight, feedback, and assistance help build and maintain trust in the system, mitigate risks, and ensure agents adapt to align with human intents and needs.

## 4. Market Size & SWOT Analysis

### Market Size:

- **Target Market:** Individuals dealing with customer service disputes, billing issues, and subscription cancellations. Based on consumer research, around 50% of adults in the US experience such issues annually, creating a considerable market potential.
- **Addressable Market:** If even 10% of these individuals adopt AI consumer agents, the potential user base could be in the tens of millions in the US alone.
- **Healthcare Insurance Market:** With 91.7% of Americans covered by health insurance, the market for advocacy in insurance-related claims is immense, targeting millions of potential users dealing with billing and claims disputes.

### Market Size Graph:



The graph above illustrates the estimated market size based on consumer research, highlighting the significant potential user base for AI consumer agents.

## SWOT Analysis:

### Strengths:

- **Consumer-Centric Messaging:** The product has a strong value proposition of saving consumers time and hassle.
- **Persistence and Multi-Channel Capabilities:** The AI agent's ability to escalate across multiple platforms, including voice and chat, increases its efficacy.
- **Scalable Automation:** Once the system is developed, serving additional customers incurs minimal variable costs.

### Weaknesses:

- **Initial Trust Issues:** Building consumer trust is challenging when asking for sensitive data such as bills and account information.
- **High Development Costs:** The initial agent and model development and compliance adherence involve significant upfront costs.

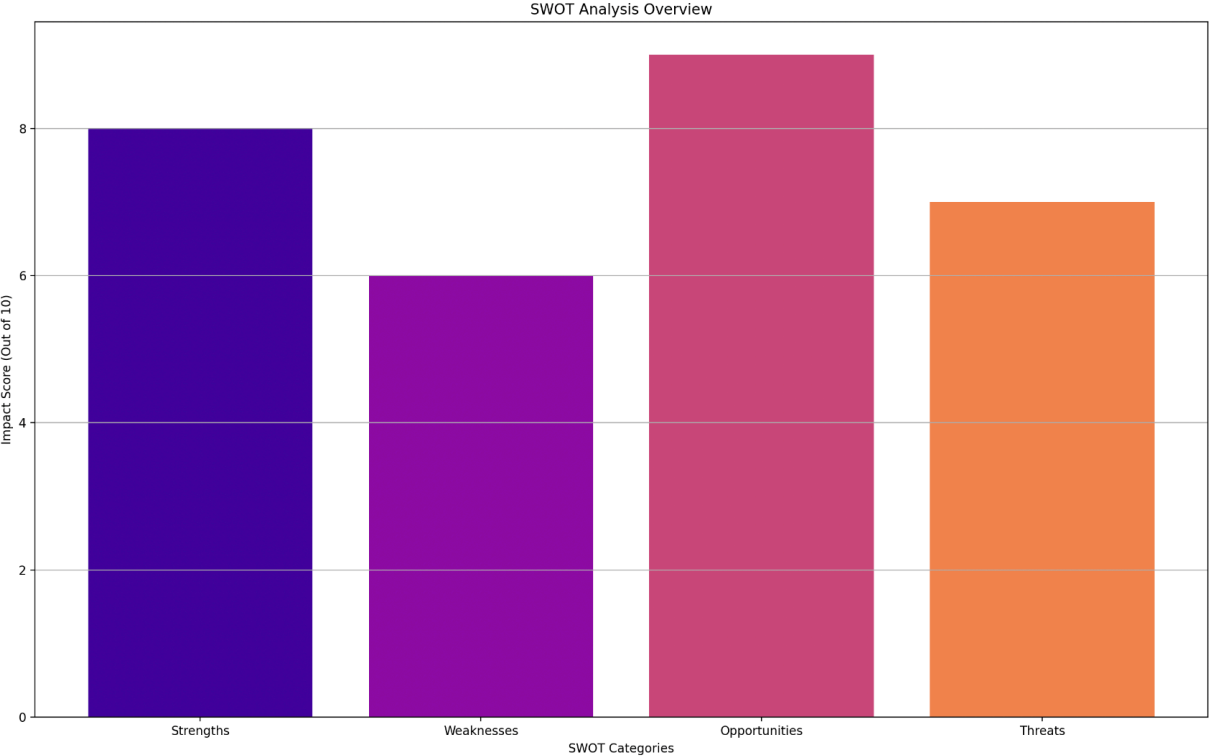
### Opportunities:

- **Partnerships:** Partnerships with consumer advocacy groups can add expertise, credibility, and build trust.
- **Untapped Market Segments:** Expanding into underserved areas such as healthcare billing disputes and warranty claims could capture additional market share.
- **White-Label Solutions:** Offering the AI as a white-label product for consumer advocacy firms can provide additional revenue streams.

### Threats:

- **Corporate Pushback:** Companies may deploy tactics or legal barriers to block automated consumer bots from interacting with their systems.
- **Regulatory Challenges:** Compliance with privacy regulations (e.g., HIPAA, GDPR, CCPA) could introduce additional operational complexities and limitations.

SWOT Analysis Chart:



The chart above visualizes the strengths, weaknesses, opportunities, and threats for AI consumer agents, providing a clear understanding of the product's strategic positioning.

## 5. Competitive Analysis

### Competitors:

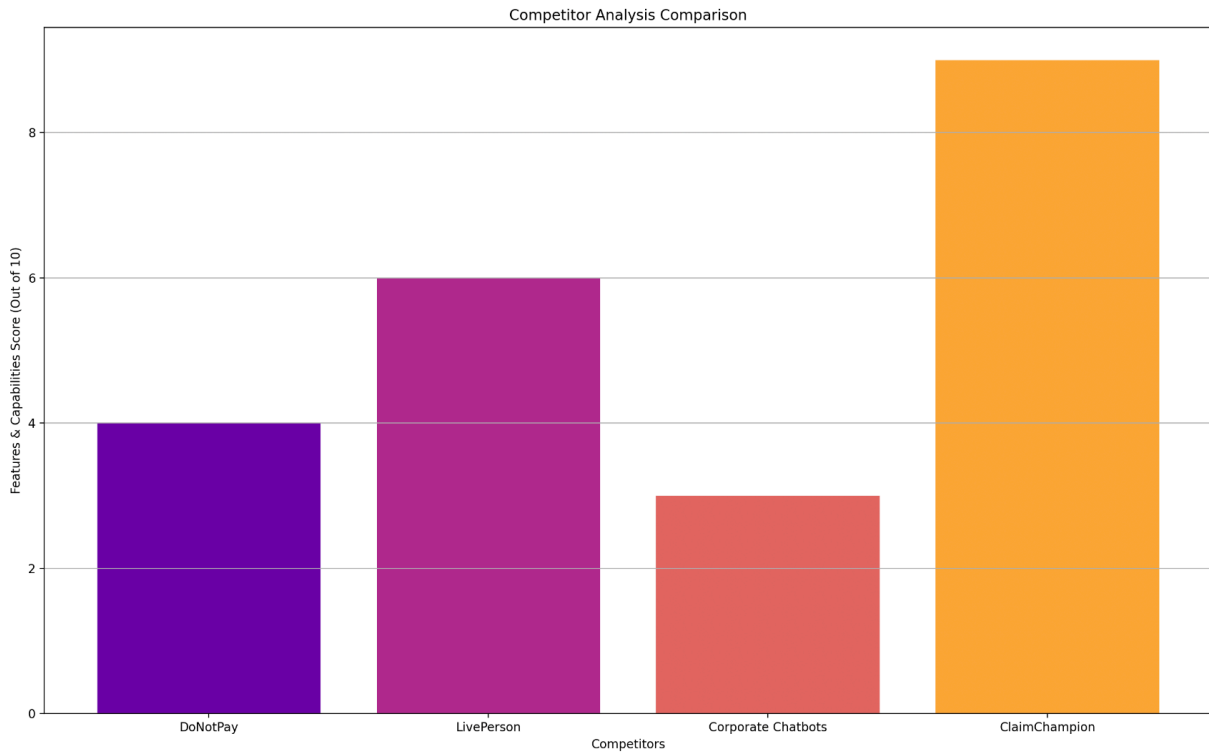
- **AgentForce:**  
Salesforce's AI platform that enables businesses to create and deploy autonomous AI agents across sales, service, marketing, and commerce.
- **Cofactor AI:**  
Applies AI and NLP to automate and streamline the insurance appeals process, helping healthcare organizations recover lost revenue, reduce administrative costs, and allow medical teams to focus on patient care.
- **DoNotPay:**  
An AI service that assists consumers in fighting minor legal battles and disputes, but does not offer persistent, voice-based interaction.
- **LivePerson:**  
Offers conversational AI for customer service automation but lacks the specific focus on health insurance billing disputes and advocacy.
- **Corporate Chatbots:**  
Many companies have customer service bots, but these often lack effectiveness and transparency and tend to favor corporate interests.
- **Corporate Counter Measures:**  
We expect corporations to employ services intended to adapt to and thwart ClaimChampion's successful tactics, strategies, technologies, and endeavors.

### Differentiation:

- ClaimChampion can handle **voice-based interactions** and will **persistently retry** through **different channels**, providing comprehensive, automated solutions that exceed the capabilities of existing consumer tools.
- The focus on **automation, escalation, and persistence** until resolution – which most existing solutions lack – positions this product as a strong advocate for consumer rights.
- **Live Humans – Legal Specialists, Customer Rights Advocates, and Negotiators** – on hand to jump in when AI Agents need to hand-off. Research indicates a balance of Intelligent Humans + Advanced Technology is critical in achieving high resolution rates.



### Competitor Analysis graph #1:



This chart highlights ClaimChampion’s competitive edge in delivering a robust and persistent consumer advocacy solution.

### Competitor Analysis Table #1:

Competitor	Features	Strengths	Weaknesses
AgentForce	AI Agents for sales, service, commerce, etc.	Low-Code Customization	Complex implementation, Requires human oversight, data quality, cost
Cofactor AI	Automates insurance denial appeals using AI technology.	Increases revenue recovery through automated denial management.	New brand with limited market presence.
DoNotPay	Text-based complaints, minor legal	Cost-effective	No voice interaction or persistence
LivePerson	Conversational AI	Multi-industry, automation	No specific focus on health insurance disputes
Corporate Chatbots	Automated responses	Company-specific knowledge	Biased, limited escalation ability

Competitor Analysis Table #2:

Competitor	General Info	Key Features	Target Audience	Platforms + Location
<b>AgentForce</b>	AI platform that enables businesses to create and deploy autonomous AI agents	Customizable AI Agents, Low-Code	Sales, Service, Commerce, Marketing	AI Cloud Platform HQ: USA Market: Global
<b>Cofactor AI</b>	Healthcare financial platform founded in 2023	Real-time integration with EMR systems and automated appeals	Hospitals and health systems managing insurance denials	AI Cloud Platform HQ: USA Market: Global
<b>LivePerson</b>	LivePerson offers an conversational AI-powered platform that can handle customer service interactions across multiple industries, including healthcare	Conversational AI, Omnichannel Messaging, Live Chat Integration, Report & Analytics	Healthcare, Retail, Financial Services	Web, Mobile and Social Media HQ: USA Market: Global
<b>Nuance Virtual Assistant</b>	A conversational AI solution that helps with patient inquiries, appointment scheduling, prescription refills, and health information	Conversational AI for symptom checking and triage, appt scheduling, Patient Education	Healthcare	Web, Mobile and Social Media HQ: USA Market: Global
<b>Zendesk</b>	Zendesk is a well-known customer service platform that offers AI-powered automation through its chatbot solutions	Chatbot, omnichannel support, Report & Analytics	Multi-industry: business of all sizes and industries	Web, Mobile and Social Media HQ: USA Market: Global
<b>Claim Champion</b>	AI agents that save time and reduce stress by efficiently resolving all of the client's insurance-related issues, including access, billing, claims, coverage, service, and more	Conversational AI for claims management, Reports & Analytics, omnichannel messaging	Multi-industry with a focus in claims management	Web, Mobile and Social Media HQ: USA Market: Global

Competitor Analysis chart #2:



Gartner's Magic Quadrant graph, plotting the above competitors in the broader sales & support space.

## 6. Target Customer

### Target Customers:

- **Parents, Especially Mothers:**  
Often managing household responsibilities and dealing with complex billing issues for family healthcare.
- **Elderly & Caretakers:**  
Seniors and their caretakers who often face bureaucratic challenges with healthcare services.
- **Veterans & Disabled Individuals:**  
Individuals who frequently deal with insurance companies for necessary and critical care.
- **Infirm & Underserved Populations:**  
Individuals with limited resources or mobility, who could significantly benefit from having an advocate manage their claims.
- **Busy Professionals:**  
Individuals who do not have the time to spend on long hold calls or repeated attempts to resolve issues.



## 7. Requirements – People & Data

### Core Development Team Structure:

To develop ClaimChampion, the core team(s) should consist of the following roles:

- **Data Scientists (2):** Responsible for building, training, and optimizing AI models. Their main focus will be on Agents, LLMs, & tools to carry out tasks, and workflows, as well as predictive analytics for dispute resolution.
- **Data Engineers (2):** Handle data ingestion, cleaning, and transformation. They will work to ensure data quality and establish data pipelines.
- **Machine Learning Engineers (2):** Responsible for deploying ML and RL models and creating scalable solutions for integrating them into the platform.
- **Backend Developers (3):** Focus on developing the architecture and infrastructure required to support the platform's APIs, as well as handling customer service interactions.
- **Frontend Developers (2):** Work on creating an intuitive user interface for mobile and web applications.
- **Product Managers (2):** Oversees the entire development process, coordinates between teams, and ensures product requirements are met or exceeded.
- **UX/UI Designers (2):** Conducts user research, validates user-market fit, develops onboarding workflow strategies, designs experiences that exceed user expectations, bringing them joy.
- **Quality Assurance Engineers (2):** Creates automated tests to rigorously ensure the highest levels of functionality, minimizing bugs and risks.
- **DevOps Engineer (1):** Maintains deployment environments and technology systems, manages builds, communicates issues.

## Core Services Team Structure:

To service users issues, the core team(s) should consist of the following roles:

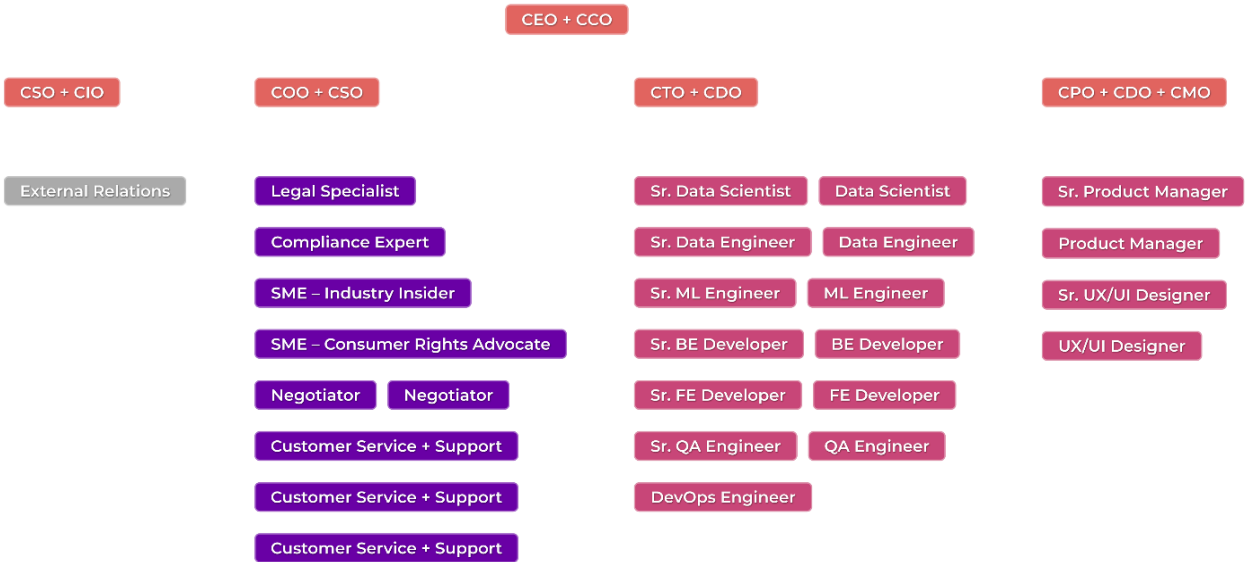
- **Customer Success specialists (3):** Responsible for directly assisting users with inquiries, troubleshooting issues, and providing timely resolutions. They serve as the first point of contact for customers and ensure a positive experience.
- **Legal Specialist & Compliance Expert (1):** Review contracts, user agreements, service level agreements (SLAs), and address any legal concerns related to customer disputes, data privacy, or compliance issues. Ensures data privacy and compliance with regulations like HIPAA, GDPR and CCPA.
- **Industry Insiders/Consumer Advocates (External SME - 2):** Provide specialized knowledge regarding corporate strategies, dispute handling, and consumer advocacy.

## Executive Leadership Team Structure:

To grow ClaimChampion, the executive leadership team should consist of the following multi-faceted roles:

- **Chief Executive + Communications Officer (CEO+CCO):** Provides overall vision, leadership, and ensures alignment with business goals while managing external communications and key relations.
- **Chief Strategy + Innovation Officer (CSO+CIO):** Manages long term strategies, fostering innovation, and builds critical partnerships.
- **Chief Operating + Security Officer (COO\_CSO):** Manages day-to-day operations, product development, resource allocation, and overall operational efficiency. Manages data security, governance, guardrails.
- **Chief Technology + Data Officer (CTO+CDO):** Leads technology strategy, data management, and ensures platform scalability.
- **Chief Product + Design + Marketing Officer (CPO+CDO+CMO):** Oversees product design, user experience, and marketing strategies to align product features with user needs and promote growth.

## Org Chart:



Product + Design + Marketing teams, Engineering + Data teams, and Service + Success teams.

## Data Requirements:

To successfully develop the ClaimChampion platform, the team will need the following data and expertise:

- **Acquisition of Data:** Data required for building the RAG document stores and AI models includes insurance policies, plans and documentation, resolution processes, medical codes, call transcripts, chat interactions, customer complaints, and resolution histories, consumer protection laws and legal rulings, BBB records, online reviews, knowledge bases and FAQs, legal regulations, compliance documentation and violations, billing records, denial records, terms of service, terms and condition, and more. Much of this can be scraped from websites or gathered from public repositories.
- **Training Data:** Existing public and commercial datasets related to customer service interactions can be used for initial training, while proprietary data can be gathered through partnerships with consumer groups and data providers.
  - **Amazon Web Services (AWS) Open Data:**  
Offers access to publicly available datasets, including customer service interactions, allowing for domain-specific pretraining and experimentation.
  - **CallMiner Eureka Datasets:**  
Rich in conversation analytics with sentiment analysis and speech-to-text insights. This aligns well with the project's need for understanding customer emotions and dispute resolution.
  - **OpenSLR:**  
Provides open-source speech and language datasets, ideal for building and refining automatic speech recognition (ASR) models for phone and voice-based interactions.
  - **FutureBeeAI's Call Center Conversation Speech Datasets:**  
Focuses on customer service across multiple industries, with data useful for building realistic agent-customer interaction scenarios.
  - **Defined.ai's Call Center Free Datasets:**  
Specifically tailored for optimizing call center strategies, which matches the ClaimChampion project's focus on customer interaction efficiency.
  - **Linguistic Data Consortium (LDC):**  
Offers annotated multilingual conversational datasets, which are useful for training models to handle diverse user interactions and multilingual capabilities.
  - **Data.gov, and Government Repositories and Datasets:**  
Public insurance guidelines and coverage rules.



- **Google AI Hub:**  
Commercial datasets spanning various AI applications, including call center operations.
  - **Authenticx:**  
Tools for analyzing customer interactions using AI, which can be beneficial for understanding customer concerns and improving call center performance.
  - **Summa Linguae:**  
Pre-packaged or custom-collected call center data, including phone conversations and text chat transcripts. Their datasets cover multiple languages and industry-specific domains such as retail, sales, or medical bookings.
  - **Macgence:**  
Call center conversation audio datasets in English for phone service support, captured within various real-world settings to provide a comprehensive portrayal of call center interactions.
  - **PolyAI:**  
Conversational datasets containing context-response pairs, which can be useful for training dialogue systems
  - **Dialog Studio:**  
A curated collection of dialogue datasets unified under a consistent format, facilitating research in conversational AI.
- 
- **Data Storage and Access:** US Data will be stored on a cloud platform, likely AWS S3, providing secure and scalable storage with role-based access controls for the team. AWS also offers a host of secure access layers via IAM, KMS, TLS, and others, ensuring compliance with GDPR, HIPAA, and CCPA.
  - **External SME Engagement:** We will involve subject matter experts (SMEs) from the beginning to provide insights into data requirements, corporate customer service strategies, and effective dispute resolution tactics. Engagement with SMEs will be conducted via consultancy contracts for specific stages of the development process, such as model validation and feature enhancements.

## Solution Architecture:

The technology stack needed to fully realize the potential of ClaimChampion is both deep and wide, including: voice, text, memory, strategic reasoning, domain expertise, negotiation skills, and more.

Stack Category	Technologies/Tools	Description
<b>Tech Stack</b>		Backbone for scalability, performance, and integration across channels.
<b>Frontend Technologies</b>	<b>React, React Native</b>	Responsive web and mobile app development for consistent user experience.
<b>Backend Technologies</b>	<b>Node.js + Express, GraphQL, Java</b>	Scalable server-side processing and efficient data fetching.
<b>Database</b>	<b>PostgreSQL, MongoDB</b>	Structured data storage and unstructured data storage for interactions and metadata.
<b>Authentication &amp; Security</b>	<b>OAuth 2.0, JWT, AWS Cognito, Okta</b>	Secure user authentication, authorization, and streamlined access control.
<b>Infrastructure</b>	<b>AWS/GCP, Kubernetes</b>	Hosting, container orchestration, scalability, and management.
<b>Data Stack</b>		Essential for managing, processing, and analyzing large data volumes.
<b>Data Ingestion</b>	<b>Apache Kafka, Apache NiFi</b>	Real-time data capture and ETL automation for multiple sources.
<b>Data Storage</b>	<b>Amazon S3, PostgreSQL, Elasticsearch</b>	Storage for raw data, structured data, and fast querying for analytics.
<b>Data Processing</b>	<b>Apache Spark</b>	Distributed data processing for generating insights.
<b>Document Understanding</b>	<b>Qwen2-VL, DocOwl2</b>	Needed to process and understand documents in various formats.
<b>Data Warehousing</b>	<b>Snowflake, Redshift</b>	Analytics and business intelligence with easy access to historical data.
<b>Data Set Licensing</b>	<b>See Data Reqs.</b>	Needed to train models, agents, and systems.

<b>AI Technologies</b>		Supports NLP, NLU, LLM, voice interaction, and intelligent decision-making.
<b>Agent Frameworks</b>	LangChain, LangGraph, Fin2, AutoGPT, AgentGPT, PhiData, CrewAI	Enhances interaction with multi-agent coordination and learning. RAG anchors responses in documents and facts.
<b>RAG</b>	RL, Multi-AgentRL, Command R, Meta RAG, Haystack, Pinecone,	Automate customer support by retrieving company-specific documents. and deliver context-aware, factually grounded insights across specialized domains like healthcare and legal.
<b>LLMs, NLP, NLU</b>	AWS Nova, OpenAI GPT-4o, Llama, spaCy, NLTK, Gemini	Generates responses, understands intents, and performs text preprocessing and analysis.
<b>Speech Recognition</b>	Google Speech-to-Text, Amazon Polly	Converts voice calls to text and generates human-like responses.
<b>ML Models</b>	Scikit-Learn, RL, TensorFlow, PyTorch	Custom deep learning and classification models for dispute prioritization and sentiment analysis.
<b>Browser usage</b>	Agent-S, LaVague, Puppeteer, v0	Agentic frameworks that take actions on websites using LLMs as their reasoning engines.
<b>Memory</b>	LangChain, Mem0, Letta (fka MemGPT)	Memory tools enable agents to maintain context over long conversations, remember user preferences, and learn from past interactions.
<b>Recommendation System</b>	LightFM, implicit library	Suggests escalation strategies based on historical resolutions.

<b>Multi-Modal Architecture</b>		Robust support for multiple input channels.
<b>Input Layer</b>	<b>API Gateway, Google Speech API, Kafka,</b>	Receives inputs from multiple sources, converts voice to text, and routes messages.
<b>Text-to-Voice Voice-to-Text Voice-to-Voice</b>	<b>Ultravox, Moshi, Pipecat, Whisper, ElevenLabs, Cartesia</b>	Voice interfaces represent the most natural way for humans to interact with AI agents.
<b>Processing Layer</b>	<b>Hugging Face Transformers, spaCy, Redis</b>	Processes inputs, manages conversation context, and enforces business rules.
<b>Output Layer</b>	<b>Twilio, Amazon Polly</b>	Sends responses across channels (voice, SMS, email, chat).
<b>Orchestration</b>	<b>Apache Airflow, Kubernetes</b>	Manages workflows and containerized services for high availability.
<b>Data Flow &amp; Storage</b>	<b>AWS S3, PostgreSQL, Snowflake</b>	Stores incoming data, manages transactions, and provides analytics insights.
<b>People Stack</b>		Complements AI Agent architecture with human expertise.
<b>CX Support Advocates</b>	<b>Platform Tools, APIs</b>	Handle inputs from multiple sources.
<b>Legal Advocates</b>	<b>Platform Tools, APIs</b>	Specialized legal expertise for consumer rights.
<b>Industry Specialists</b>	<b>Platform Tools, APIs</b>	Provide industry-specific insights for effective dispute handling.
<b>Professional Negotiators</b>	<b>Platform Tools, APIs</b>	Skilled negotiators for complex cases needing human intervention.
<b>Back Office</b>	<b>Gusto</b>	Platform offering payroll, benefits, and HR services.

## 8. Product Development Roadmap

The product roadmap for the AI-powered consumer advocacy service is structured into overlapping phases over the next 2 years. It begins with research and planning, to validate market demand and to define the MVP features. This will be followed by development. While a beta launch helps gather user feedback to refine the platform before full launch which will target 150,000 users within the first year. Revenue generation strategies, which will include tiered subscription models can be implemented alongside optimization of AI & User experience.

### 1. Phase 1: Research and Initial Development – Months 1-3

- **Milestones:** Market + industry research, gather datasets, develop initial models and strategies, set up cloud infrastructure, formulate vision and requirements.
- **Focus Metrics:** Data readiness, initial model accuracy.

### 2. Phase 2: MVP Development – Months 4-11

- **Milestones:** Develop minimum viable product (MVP), including core functionalities like dispute automation and call routing, Agent + API integration, and delightful user interactions.
- **Focus Metrics:** Completion of MVP, early user feedback, model performance, iteration.

### 3. Phase 3: User Testing and Feedback Iteration – Months 7-12

- **Milestones:** Iterative micro-testing. Launch MVP, beta for limited user testing, gather user feedback, iterate on features and design.
- **Focus Metrics:** Task completion rate, user satisfaction, number of bugs, response times, bugs fixed.

### 4. Phase 4: Full Product Launch – Months 10-12

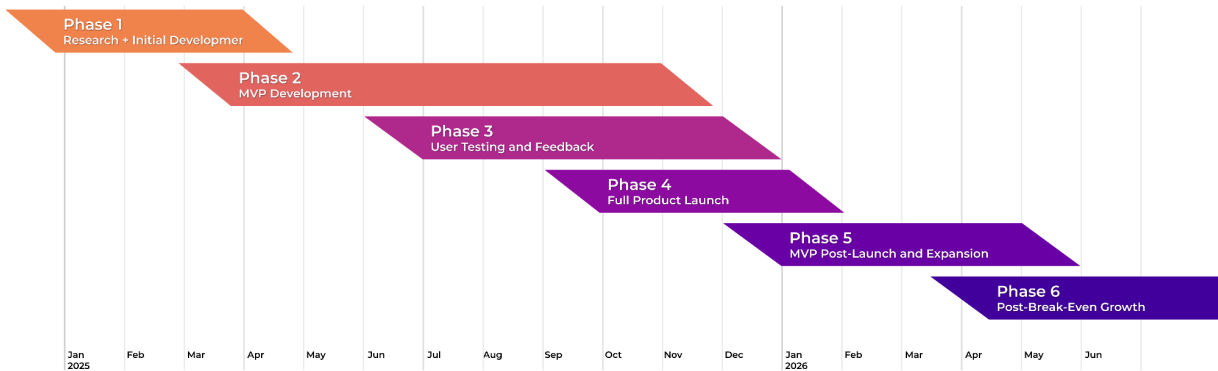
- **Milestones:** Finalize and launch the product, set up customer support, implement full compliance review. Targeted marketing and PR.
- **Focus Metrics:** Product stability, regulatory compliance, customer adoption rate, user satisfaction.

### 5. Phase 5: Post-Launch Support and Feature Expansion – Months 13-18

- **Milestones:** Add new features based on user feedback, expand into new industries, refine algorithms.
- **Focus Metrics:** Feature adoption rate, customer satisfaction, churn rate reduction.

### 6. Phase 6: Post-Break-Even – Months 18+

- Start growth, hire more staff, add more dev teams, build more infrastructure, grow sales and marketing,



Gantt chart outlining phased development of ClaimChampion's AI platform.

## Training Plan:

- Internal Team Training:** Training sessions will be conducted on the product's functionality, data privacy best practices, agent and model deployment. Design sessions and workshops will be conducted to keep teams aligned with objectives. Cross-functional training so that team members can support each other with critical redundancies.
- Customer Training:** For users, a series of tutorial videos and help documentation will be provided. Customer support will also include a guided onboarding process to ensure customers understand how to use the platform effectively. Again, thoughtful designs will be employed to minimize friction and maximize usage, enjoyment, and closure.

## Useful Algorithms, Models, and Techniques:

To build a comprehensive and efficient ClaimChampion system, a veritable alphabet soup of advanced models and algorithms are essential to success. This list extends the list of models in the Solution Architecture section above, but is not exhaustive, as nearly every technique in the Data Scientist's toolbox comes into play.

- **Retrieval Algorithms:** Vector similarity search, powered by embedding models, enables accurate document matching, while traditional methods like BM25 and TF-IDF ensure keyword-based retrieval.
- **Embedding Models:** Transformer-based pre-trained models generate numerical vector representations for efficient similarity comparisons.
- **Ranking Models:** Cross-encoders refine retrieval results, prioritizing the most relevant documents.
- **Language Generation:** Large language models (LLMs) integrated with retrieval-augmented generation (RAG) generate precise, fact-based responses.
- **Fusion Techniques:** Fusion-in-Decoder (FiD) combines multiple retrieved sources for richer and more informed responses.
- **Fine-Tuning and RLHF:** Supervised fine-tuning and reinforcement learning from human feedback improve model accuracy and alignment with user needs.
- **Natural Language Processing (NLP) and Understanding (NLU):** Tasks such as Named Entity Recognition (NER), intent recognition, and parsing user inputs improve personalization and facilitate accurate information retrieval.
- **Sentiment Analysis and Summarization:** Enhance user interaction by detecting emotions and summarizing lengthy documents or policies.
- **Multi-Modal Learning:** Integrates text, voice, and document data for unified context understanding.
- **Fraud Detection:** Algorithms like anomaly detection, supervised classifiers, graph neural networks, and clustering methods identify and mitigate fraudulent activity.
- **Recommendation Systems:** Provide actionable guidance for escalation strategies and supporting document requirements.
- **Explainable AI:** Ensures transparency by clarifying model decisions, building user trust.

## 9. Expansion Plan

### Post-Launch Opportunities:

ClaimChampion's expansion plan outlines a strategic path for growth post-launch, focusing on broader adoption and innovation.

Key steps include introducing multi-lingual support, advanced financial tools, and leveraging technologies like blockchain.

Industry diversification, global market entry, and automation enhancements will address customer pain points across sectors, positioning ClaimChampion as a leading consumer advocacy platform while driving user growth and market share.

- **Feature Expansion:** Six months after launch, we plan to introduce features for multi-lingual support, allowing broader adoption among non-English speaking users, and those without a strong command of the language. Add intelligent management and monitoring tools for consumer financial health. Add and grow social media and marketing campaigns supporting consumer rights education, including content to help consumers improve medical and financial health.
- **Industry Expansion:** In the first year after launch, expand into other sectors, such as utilities, telecommunications, travel, retail, and finance, to maximize reach and potential user base.
- **Advanced Automation:** Add more automation features, like auto-escalation to regulatory bodies for unresolved claims, further enhancing consumer empowerment.
- **Market Share Growth:** With feature and industry expansion, ClaimChampion will aim to increase its market share by positioning itself as the leading consumer advocacy platform. Improved features, like personalized dispute recommendations and 24/7 assistance, will help capture a larger audience, driving user growth.
- **Global Market Entry:** Adapting this platform to meet regulatory requirements of international markets under global consumer advocacy.
- **Integration w/Emerging Tech:** Leverage blockchain for secure data management.



## 10. Business Plan (Financials)

The financial section of ClaimChampion's business plan details start-up costs, revenue forecasts, ROI, and risk mitigation strategies. It emphasizes scalable subscription-based revenue, projecting profitability by the 16th month post-launch. Key risks like data privacy, compliance, and competition are addressed with strategies for sustainable growth.

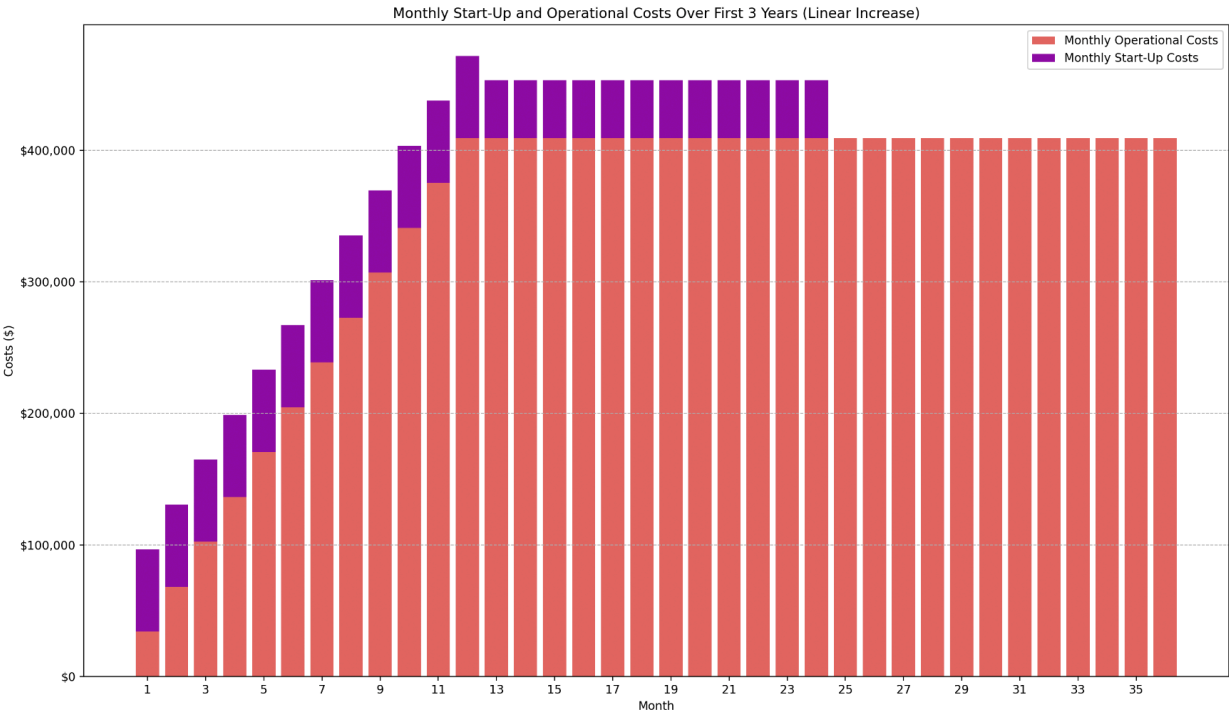
### Start-Up Expenses:

Expense Type	Year 1	Year 2
Hardware Cost	\$50,000	\$20,000
Software Cost	\$100,000	\$50,000
Data + Licensing Costs	\$100,000	\$50,000
Management Cost	\$150,000	\$180,000
Training + Support	\$80,000	\$40,000
Implementation Cost	\$100,000	\$60,000
Marketing Cost	\$200,000	\$150,000
Miscellaneous Cost	\$70,000	\$30,000
Contingencies (+20%)	\$150,000	\$100,000
<b>Total</b>	<b>\$1,000,000</b>	<b>\$680,000</b>

## Operational Expenses:

Chief Executive + Comms Officer (CEO+CCO)	\$300,000	1	\$300,000
Chief Operating + Security Officer (COO+CSO)	\$250,000	1	\$250,000
Chief Strategy + Innovation Officer (CSO+CIO)	\$250,000	1	\$250,000
Chief Technology + Data Officer (CTO+CDO)	\$250,000	1	\$250,000
Chief Product + Design + Marketing Officer (CPO+CDO+CMO)	\$250,000	1	\$250,000
Product Managers (2)	\$150,000	2	\$300,000
Data Scientists (2)	\$150,000	2	\$300,000
Data Engineers (2)	\$135,000	2	\$270,000
Machine Learning Engineers (2)	\$135,000	2	\$270,000
Backend Developers (2)	\$135,000	2	\$270,000
Frontend Developers (2)	\$135,000	2	\$270,000
Product/UX/UI/XR Designers (2)	\$135,000	2	\$270,000
Quality Assurance (2)	\$90,000	2	\$180,000
Legal & Compliance Expert (1)	\$135,000	1	\$135,000
Industry Insiders/Consumer Advocates (SME - 2)	\$135,000	2	\$270,000
Negotiators (2)	\$100,000	2	\$200,000
CX Service + Support Associates (3)	\$75,000	3	\$225,000
DevOps	\$100,000	1	\$100,000
Cloud Infrastructure	\$100,000		\$100,000
Marketing & Sales	\$200,000		\$200,000
Customer Support	\$120,000		\$120,000
Compliance & Legal	\$80,000		\$80,000
Miscellaneous	\$50,000		\$50,000
<b>Total</b>		<b>30</b>	<b>\$4,910,000</b>

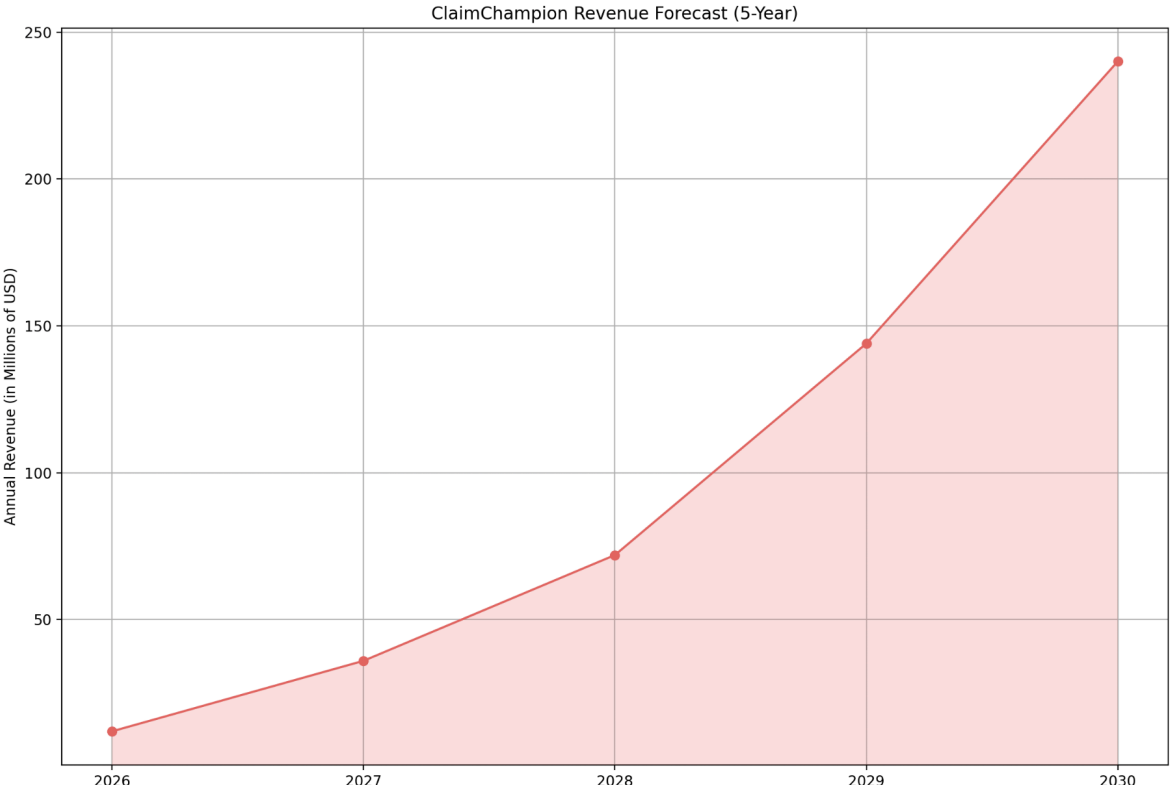
# Monthly Expenditures:



ClaimChampion's projected monthly startup and operational expenditures, totalling \$13.85 million for the first 3 years.

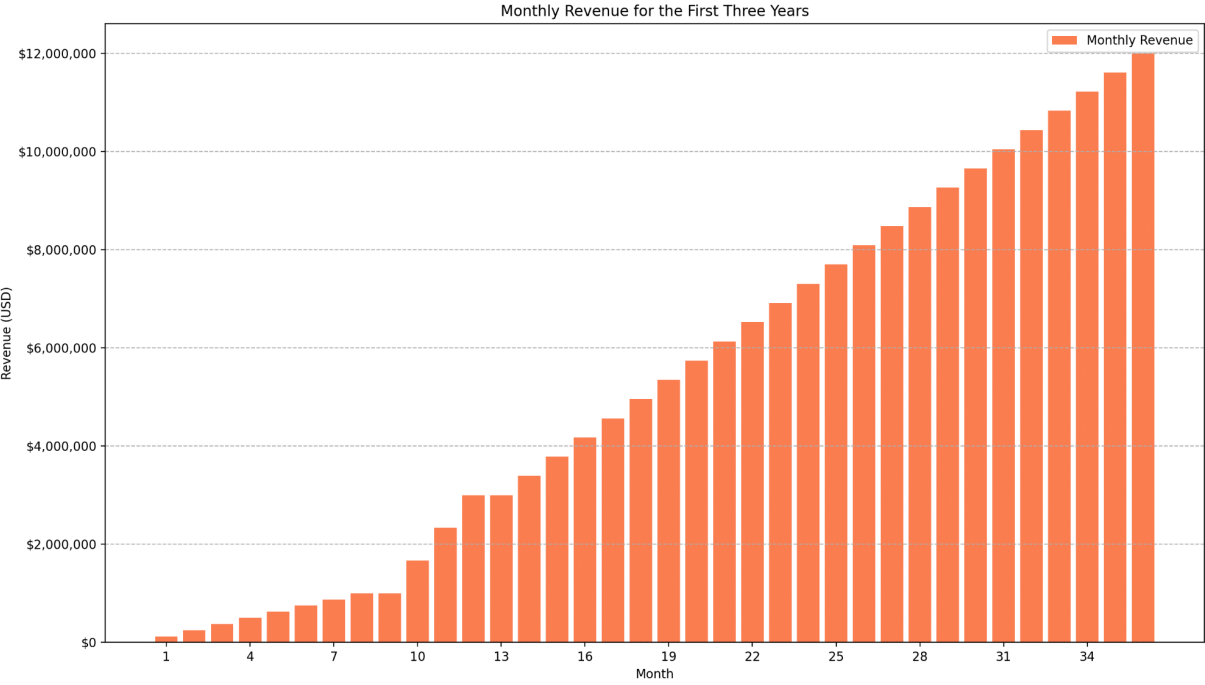
## Revenue Forecast:

- **Initial Pricing:** \$20 per user per month.
- **First 6 Months:** Achieve 50,000 users, leading to \$6 million in revenue.
- **First Year:** Target 150,000 users, resulting in \$16.5 million total revenue.
- **Year 3:** Scale to 600,000 users, generating a total of \$196 million.
- **Break-Even Point:** By the 17th month (5 months after launch), cumulative revenue surpasses cumulative costs.
- **Post-Break-Even:** Begin scaling teams while staying profitable, adding more to biz dev and sales, accelerating growth and partnerships
- **Contingencies:** To cover unexpected expenses, a contingency reserve of 20% of the total start-up costs will be maintained. This will ensure readiness for unforeseen challenges, such as regulatory changes or infrastructure upgrades.



ClaimChampion's projected growth over five years, based on increasing user adoption. Starting with 50,000 users mid-2026, scaling to 1 million by 2030, and initially priced at \$20 per user per month, annual revenue is expected to grow from \$12 million to \$240 million, highlighting aggressive expansion and financial potential.

# Revenue Forecast - Monthly:



ClaimChampion's projected monthly revenue, post-launch, derived from user subscriptions.

# Return on Investment:

- @ 48mo - Total costs: \$20 million
- @ 48mo - Total revenue: \$196 million
- @ 48mo - Total profit: \$176 million
- @ 48mo - ROI: 880%

## Risks & Challenges:

- **Data Privacy Concerns (Severity: 9)** - Ensuring compliance with data privacy laws such as GDPR and HIPAA is crucial, as any breach could lead to significant fines and loss of trust.
- **Regulatory and Policy Challenges (Severity: 8)** - Changes in consumer protection or healthcare regulations could impact the ability to provide services effectively.
- **Legal Risks (Severity: 8)** - Potential legal challenges from service providers or regulatory bodies related to dispute handling and advocacy.
- **Operational Costs (Severity: 7)** - High operational costs, especially involving expert human intervention, could impact profitability.
- **Technological Failures (Severity: 7)** - System downtime or failure in AI components could lead to service disruptions and customer dissatisfaction.
- **Corporate Pushback Strategies (Severity: 7)** - Combatting any reactions to consumer utilization of advanced automation and intelligence technologies.
- **Talent Acquisition & Retainment (Severity: 7)** - Acquiring high-caliber AI talent will be difficult in the current demand for employees with AI experience.
- **Competition (Severity: 6)** - Strong competition from established chatbot service providers and AI tools may affect market share and customer acquisition.
- **Scalability Issues (Severity: 6)** - Challenges in scaling the technology and human expertise to meet growing demand could limit growth potential.
- **Brand Reputation (Severity: 6)** - Negative publicity from unresolved disputes or perceived inefficiencies could damage the brand's credibility.
- **Economic Downturn (Severity: 5)** - Economic instability could lead to reduced consumer spending on services like ClaimChampion.
- **Customer Adoption Resistance (Severity: 5)** - Users may be hesitant to trust AI solutions to handle personal and sensitive disputes.

## Risk Mitigation:

To mitigate business risks, ClaimChampion **will stay proactive by keeping abreast of regulatory changes** and maintaining a legal advisory team to ensure compliance.

Strong data privacy measures, including **encryption, regular audits, and staff training**, will be in place to address data concerns.

Technological reliability will be ensured through **redundancy protocols, system maintenance, and disaster recovery planning**.

To stand out against competition, ClaimChampion will focus on its unique value propositions such as **personalized advocacy** and multi-channel engagement.

Customer adoption will be encouraged through **targeted education campaigns and testimonials to build trust**.

**Scalability** will be managed through **phased infrastructure upgrades** and flexible cloud solutions.

Cost efficiency will be achieved by **optimizing the mix of AI automation and human intervention**.

**Legal risks** will be mitigated by maintaining a **legal advisory team**, while brand reputation will be safeguarded through responsive customer support and user feedback.

Lastly, economic downturns will be tackled with **flexible pricing models** that emphasize ClaimChampion's value in saving time and money for users.

# APPENDIX



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Forget RAG, Welcome Agentic RAG

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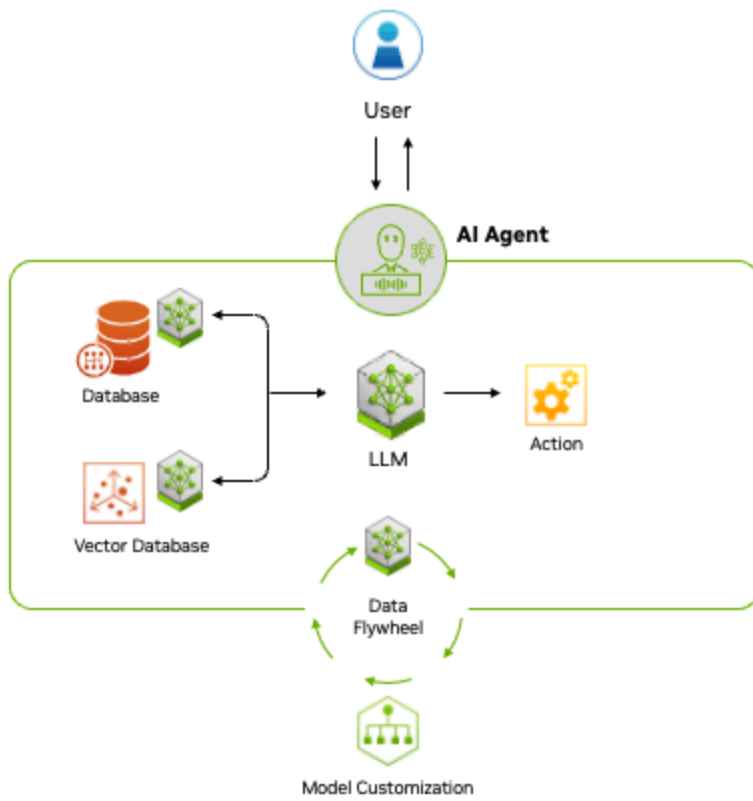
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**Armand Ruiz** · Following  
VP of Product - AI Platform @IBM  
1d ·



Forget RAG, welcome Agentic RAG

#### Native RAG

In Native RAG, the most common implementation nowadays, the user query is processed through a pipeline that includes retrieval, reranking, synthesis, and generation of a response.

This process leverages retrieval and generation-based methods to provide accurate and contextually relevant answers.

#### Agentic RAG

Agentic RAG is an advanced, agent-based approach to question answering over multiple documents in a coordinated manner. It involves comparing different documents, summarizing specific documents, or comparing various summaries.

Agentic RAG is a flexible framework that supports complex tasks requiring planning, multi-step reasoning, tool use, and learning over time.

#### Key Components and Architecture

- Document Agents: Each document is assigned a dedicated agent capable of answering questions and summarizing within its own document.

- Meta-Agent: A top-level agent manages all the document agents, orchestrating their interactions and integrating their outputs to generate a coherent and comprehensive response.

#### Features and Benefits

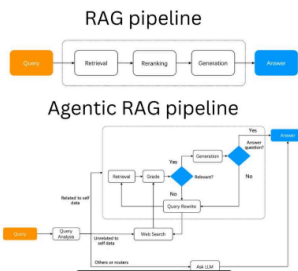
- Autonomy: Agents act independently to retrieve, process, and generate information.

- Adaptability: The system can adjust strategies based on new data and changing contexts.

- Proactivity: Agents can anticipate needs and take preemptive actions to achieve goals.  
Applications

Agentic RAG is particularly useful in scenarios requiring thorough and nuanced information processing and decision-making.

A few days ago, I discussed how the future of AI lies in AI Agents. RAG is currently the most popular use case, and with an agentic architecture, you will supercharge RAG!



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- Armand Ruiz

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