Agentic Al Marketing Platform

Core Challenge: D2C brands drowning in fragmented marketing operations across 10+ platforms without intelligent automation or autonomous decision-making.

Key Problems:

- Platform Fragmentation Chaos: Marketing teams manually juggling Shopify, Instagram, Meta Ads, Google Ads, Amazon, Flipkart, email tools, analytics—no unified orchestration
- **Zero Autonomous Optimization**: No AI agents to independently execute A/B tests, optimize creative variations, or reallocate budgets based on real-time performance
- Context Switching Fatigue: Marketers spending 3-4 hours daily switching between tools, losing strategic focus to operational firefighting
- Inconsistent Brand Voice: Manual content creation across channels leads to messaging inconsistency and brand dilution
- Delayed Market Response: 24-48 hour lag to respond to competitor moves, trend shifts, or viral opportunities due to manual workflows
- **Business Impact**: Marketing teams operating at 30% strategic capacity, losing market share to competitors with autonomous marketing systems, unable to capitalize on real-time opportunities

Client Industry: B2B SaaS

Technology Stack

Core Technologies

Backend: Python 3.11 with Django

• API Layer: Django REST Framework

• Frontend: React 18 with Next.js

Database: PostgreSQL for structured data, MongoDB

for content

Cache: Redis for sessions and rate limiting

Infrastructure

• Cloud: AWS (ECS, RDS, S3, Lambda, SQS)

CDN: AWS CloudFront

Monitoring: New Relic and Sentry

• **CI/CD**: GitHub Actions

Container: Docker with ECS

AI/ML Components

Language Models

- · OpenAI GPT-4 for generating content
- Claude 3 for longer pieces

NLP Processing

- spaCy for analyzing text
- Hugging Face Transformers for sentiment

Image Generation

- DALL-E 3 for product images
- Midjourney API for creative stuff

Recommendation Engine

- TensorFlow for collaborative filtering
- Custom algos for matching personas

Marketing Technology Integrations

E-commerce Platforms

- Shopify API
- WooCommerce REST API

Marketplace APIs

- Amazon Advertising API
- Flipkart Ads API
- Nykaa Seller API

Analytics

- Google Analytics 4
- Meta Pixel
- Custom tracking for attribution

A/B Testing

- Google Optimize
- Our own experimentation setup

Development Process

Phase 1: Market Research & Strategy (Weeks 1-2)

Activities:

- Analyzing competitors in beauty and wellness
- Researching and validating customer personas
- Auditing channel performance (Amazon, Flipkart, Nykaa, social)
- Spotting content gaps
- Mapping the marketing funnel
- Defining success metrics

Research report

Deliverables:

- Persona docs (4 main ones)
- Channel strategy doc
- Content framework

Deliverables: Activities:

Phase 2: Platform Architecture & Design (Weeks 3-4)

Designing multi-tenant setup

- Planning AI content workflows
- **Building attribution models**
- Setting up A/B testing
- Handling security and privacy Planning for scale

Sprint 1 (Weeks 5-6): Persona Engine

01

03

- Generating profiles
- Identifying purchase patterns

- Phase 3: Core Platform Development (Weeks 5-14) 02
- UI/UX mockups

Architecture doc

API designs

Security plan

Database schemas

Module Pulling customer data from e-commerce Integrating OpenAl GPT-4 Analyzing behaviors

Clustering personas with K-means

Sprint 3 (Weeks 10-11): Multi-Channel

Hooking up Amazon Advertising API

- Defining segment traits

Campaign Manager

Allocating budgets

Optimizing bids

Integrating Flipkart Ads

Scheduling campaigns

Managing Nykaa campaigns

Coordinating across channels

Building content templates for: Product descriptions

Sprint 2 (Weeks 7-9): Al Content Generation

- Social posts
 - **Emails**
 - Blogs
 - Customizing brand voice Adding multi-language
 - Scoring quality

Generating variations

- 04 Sprint 4 (Weeks 12-14): Performance
- **Optimization & Attribution**

Creating multi-touch attribution Tracking performance in real-time

Managing A/B tests Analyzing conversion funnels

- Recommending budget tweaks Calculating ROI

Gathering competitive pricing intel

Working platform Al content system

Deliverables:

Attribution and analytics tools

Campaign manager

- Phase 4: Intelligence & Automation (Weeks 15–17)

Activities:

Monitoring products Predictive models Analyzing prices Automation engine ML recommendations

Tracking promotions Sentiment on reviews

Forecasting demand

Building a competitor scraper for:

- Adding predictive analytics for:
- Predicting seasonal trends Estimating campaign results

Setting up automations like:

- Reallocating budgets dynamically Adjusting bids
- Rotating creatives Expanding audiences
- **Activities:**

Developing exec dashboards

Building ops dashboards

Showing real-time metrics

Phase 5: Dashboard & Reporting (Weeks 18-19)

Deliverables:

Intelligence dashboard

Creating custom reports Mobile app (if needed) Automating weekly/monthly reports

- Setting up anomaly alerts

Making it mobile-friendly

- Phase 6: Testing & Optimization (Weeks 20–21)
- **Activities:**

Load testing for 10K users

Validating AI content quality

Deliverables:

Various dashboards

Reporting system

Alert notifications

- **Deliverables:**

Test reports

Benchmarks

Security audit

Checking attribution accuracy Optimized system Doing security pen tests

Optimizing performance

Fixing bugs

Running end-to-end tests with pilot campaigns

- Phase 7: Launch & Onboarding (Weeks 22-24)
- **Activities:** Rolling out in phases (starting with 2 brands)

Customizing per brand

Training marketing teams

Migrating content libraries

Importing historical data

Deliverables:

Live system

Brand configs

Launch report

Training materials

Intelligence & Automation

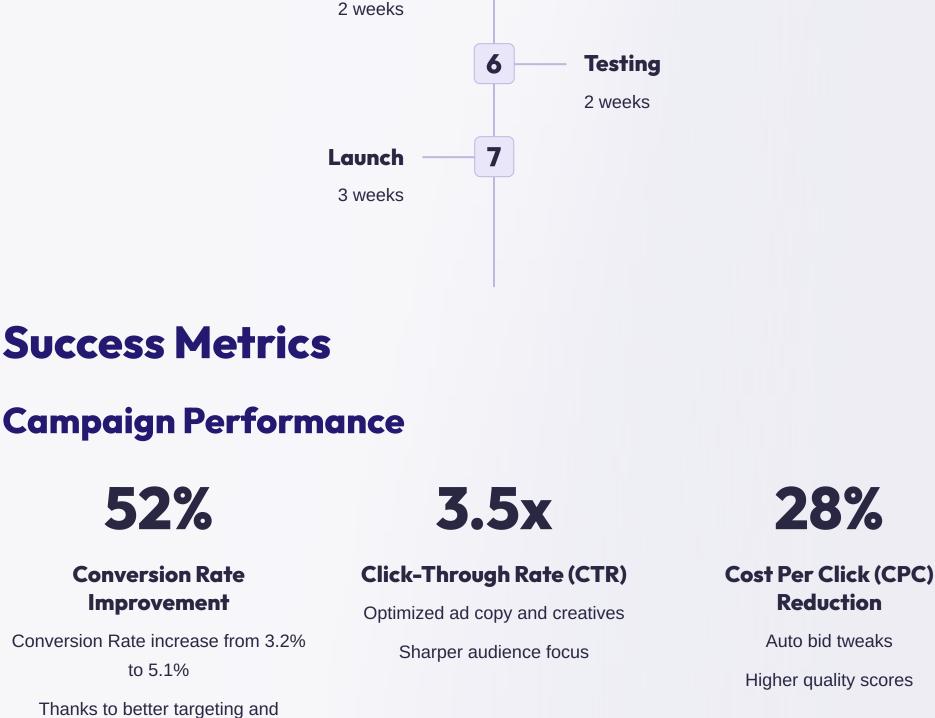
3 weeks

- Setting up monitoring and support **Development Timeline**

Total Duration: 24 weeks (6 months)

Research & Strategy 2 weeks 2 **Architecture** 2 weeks 3 **Core Development** 10 weeks

Dashboards



5

Savings of \$18 each **Content Generation**

Production Volume: 10x more

Multi-Channel Performance

From 20 to 200 pieces/month

Customer Acquisition

• From \$45 to \$27

Cost (CAC): Cut by 40%

messaging

Customer Acquisition

Performance: 2.8x more engagement Optimized headlines Tailored messaging

Better listings Enhanced content Efficient ads

Amazon Sales: Up 65%

- Attribution & Analytics

Quick A/B Data-based tweaks

Lead Quality Score: Up

Persona-driven campaigns

Smarter targeting

35%

 Improved descriptions Competitive pricing

Flipkart Conversion: Up 48%

Nykaa Visibility: 3x better

Variant Testing: 15 options per campaign

rankings

SEO content

Stronger presence

Customer Lifetime Value

(CLV): Up 22%

Creation Time: Down 85%

From 4 hours to 35 minutes per piece

Better matching

Stronger retention

82%

Predictive Accuracy for campaigns

Pre-launch estimates

Budget tweaks

Accuracy for multi-touch Full journey view Channel insights Reporting: Under 1 minute fresh Instant insights Quicker decisions **Operational Efficiency**

88%

Data-driven

Real-time optimization

3

Budget Efficiency: Up 25%

89%

Team Productivity: 3.5x

Automating routine work

More strategy time

higher

Revenue Growth in 6 months

Gained 3.2 points

2 hours

Templates

Auto deployment

more branded searches

Customer Base

from 2.1x

From 8.5K to 18.2K

Made with **GAMMA**

4.2x **Return on Ad Spend** (ROAS)

Business Impact 156% 18.2K 3.2 **Market Share Brand Awareness**

2

Setup Time: From 2 days to