

ECommerce Campaign Optimization on AWS



Sigmoid is an emerging leader in data engineering and Al solutions.



750+

Employees



Work with 30+

Fortune 500 firms



>97%

CSAT score



200+

ML models operationalized



5000+

Data pipelines built

Backed by

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Technology Fast 500 2023 NORTH AMERICA Deloitte



Open Source data solution provider of the year

Awards and Recognition



FORRESTER
Now Tech:
Al Consultancies,

Q1, 2021 Report



America's Fastest-Growing Private Companies

Major Contender in

EVEREST GROUP

Analytics and AI Services Specialists PEAK Matrix (2022)





New York



San Francisco



Dallas



Lima



Bangalore



Amsterdam



London



Sao Paulo



Enabling Business Transformation with Full-Service Capability Suite

Business Consulting & Data



Data Strategy & Vision



Data Monetization



Data & Technology Roadmap



Technology Evaluation & Selection



Data Governance & Security Strategy



Al/Gen Al Strategy

Data Engineering Services

Data Pipelines	ML Engineering	Cloud Trans.	BI / Consumption
Data Migration & Conversion	Model scaling & productionizing	Cloud Migration	Data Lake / Mesh
Performance Optimization	Feature Engineering	Application Modernization	Data Product
			BI Reporting & Visualization
Data Ingestion ETL/ELT	Pipeline Optimization	Cost optimization	AI/ML, LLM

Data Science



Supply Chain Analytics



Marketing & **Consumer Analytics**



Operational Analytics



F-Commerce & Sales Analytics

Managed **Services**



Data Labs



Cloud Infra Support and Management



Devops and Secops Support



DataOps & ML Ops



Data Application Managed Services

Governance & Security Services



Data Catalog & Lineage



Master Data Management



Data Quality & Security

Technology Partners

Technology Expertise



Cloud Technologies



































Sigmoid Capabilities - Experience in implementing data solutions in AWS

Sigmoid has worked with more than Five large customers to design, build and deploy solutions in AWS

Data Processing & Transformation:

- Amazon EMR: Collaborative Apache Spark-based analytics platform used for big data processing and machine learning.
- AWS Glue: Fully managed ETL (Extract, Transform, Load) service for preparing and transforming data.

Data Storage & Management:

- Amazon S3: Scalable and secure data lake for storing large amounts of structured and unstructured data.
- Amazon RDS: Managed relational database service for structured data storage.

Data Ingestion & Integration:

- AWS Data Pipeline: Creating data workflows that move and process data across AWS services.
- Amazon Kinesis: Real-time data ingestion from applications, devices, or any streaming data sources.

Data Analytics & Visualization:

- Amazon Redshift: Data warehouse service used for analyzing large datasets with either serverless or provisioned resources.
- Amazon QuickSight: Business intelligence tool for creating interactive visualizations and reports.



Machine Learning & Al:

- Amazon SageMaker: End-to-end platform for building, training, and deploying machine learning models.
- AWS AI Services: Pre-built AI services for vision, speech, language, and decision-making (e.g., Amazon Rekognition, Polly, Comprehend, Textract).

Security & Compliance:

- AWS IAM (Identity & Access Management): Identity and access management service.
- AWS Organizations & AWS Config: Governance and compliance tools for managing AWS environments at scale.

Sigmoid's implementation of solutions in AWS involves leveraging a combination of services and tools tailored to specific business needs. Sigmoid would facilitate collaboration between data engineers, data scientists, business analysts, and other stakeholders to align the implementation with business goals and ensure success.



Display Campaign Optimization

- 1 Implemented for F500 CPG Customers
- Ability to work with or without 1P data
- Able to optimize different metrics like ROAS, Total Sales, eCPP etc.
- Extending it for Search Campaign
 Optimization Audience +
 Keywords + Settings
- Audience Engine Enhanced Cleanroom Solution for Critical Audience Insights



Optimization of **Display Campaigns** run across **ECommerce** sites



Opaque and rigid media strategy

Not being able to identify the **right audience to target and the right budget spend** against an audience group

Difficulty in determining the right settings for the displays - bid, frequency,etc. For a given context

Difficulty in determining the performance of content on the fly and change parameters accordingly if not working well

Poor ROI due to Reactive decisions

Challenges in simulating different budget combinations allocated for different campaigns

Challenges in the identification of the most relevant KPIs for Campaign measurement



Solved by our Display Campaign Optimization solution

Automating the campaign setup for all the essential parameters

The solution is capable to find the find the right audiences, bid values and other settings parameters by itself for a certain campaign category

Allows the user to setup the campaigns for a conversion metric of their choice, integrating user-fed campaign parameters as well

Perfectly capable to **deliver results with or without 1P data**, with a continuous monitoring mechanism

Additional Audience Insights for better Planning

Identification of in-market audiences, audiences with competitors; also audience to be targeted based on 1P data such as Loyalty points, shopping behaviour, etc.

Audience transitions from one product to next and spillover effect - cross-sell and upsell potential is also provided



Benefits realized by a F500 CPG

Generating more sales (avg

~60% up) with less spending leading to a better ROAS

30% cost savings due to the optimization of non-performing campaigns

High granularity of our solution shows the impact of changed campaign parameters in record time

3 Weeks for the integration of a new brand - scalability realized





Optimization of Search Campaigns run across ECommerce sites



Opaque and rigid media strategy

Manual settings selection, with keywords selected on just historical performances

Simple analysis and lack of visibility of cross campaign impact leads to cannibalization

Hard to determine constantly which keyword x product combinations will perform consistently

Poor Monitoring Mechanism leading to Reactive decisions

eComm Platforms tend to over spend, when left unchecked. Frequent checks are often not possible by campaign managers

Due to manual heavy lifting, campaigns are not optimized for improvement



Solved by our Search Campaign Optimization solution

Automating the campaign setup for all the essential parameters

Fully automated setup to to control settings + budget periodically to improve necessary KPI's

Multivariate analysis to select the right settings combinations, for even historically unrelated scenarios, with intelligent keyword mining capabilities

Multiple AB campaigns to test and learn product, bids, keywords,etc. scenarios

Continuous Monitoring & Optimization leading to better performance

Intelligently monitors KPIs like eCPC, PPD etc to react to market dynamics and react

Underperforming campaigns are stopped to save budget and reuse later, or create better campaigns



Benefits realized by a F500 CPG

Improvement in search rank leads to better visibility of products, translating to higher organic sales

25% cost savings due to the optimization of non-performing campaigns

Marketing budget optimization with a higher return on the estimated spend

2 Weeks for the integration of a new brand - scalability realized





Sigmoid's Engagement Models

Project Based

Staff Augmentation

Hybrid-Flexi Model/Data Labs/CoE



- Starts with consulting/scoping (2-3 weeks)
- Delivery Program Management
- · Interim review
- Success criteria met and IP handover
- Option to continue with product support
- · Fixed bid contract
- 3-5 months duration given complexity of problem

Benefits

- Cost effective
- KPI/SLA/Outcome driven
- Suitable for Fixed scope of work
- · Less overheads



- Understanding of skill requirements
- · Profile match and rate card
- · Onboarding and monthly billing
- Focused training based on client tech stack
- Project Management support
- 10% backup resources unbilled and trained

Benefits

- Scalability
- · Flexibility in resourcing
- · Ability to change/redefine scope



- Mix of project and staff augmentation engagements
- Requirement gathering
- Requirement classification as project or staff augmentation
- Joint delivery plan
- Secure resources internally from Sigmoid and bill monthly
- · Dedicated PM, Engineering Managers
- Dedicated Management Consultant(s)
- Dedicated Team Leads and Product Owners

Benefits

- Cost effectiveness by focus on output
- Ability to change/redefine scope/Change requests
- Risk/Reward linked to KPI/SLA

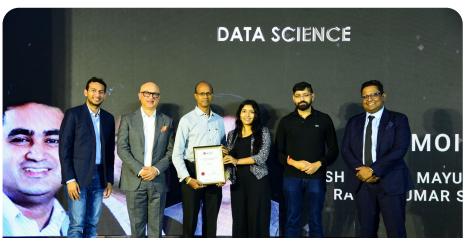


Thank you



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'India Future Unicorn Award' in Data Science category by Hurun India

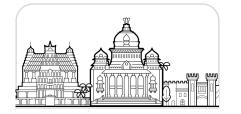
Global presence:



USA (NY, SF, Dallas, Chicago)



EU (Amsterdam, London)



India (Bengaluru)



LATAM (Lima)