DISCOVER AI CHALLENGE: DATA ALCHEMISTS



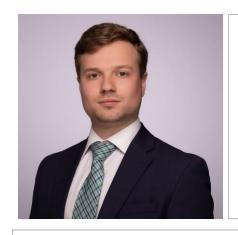
Ryan Brotman Devanshu Khurma Krati Sharma Shaher yar Jahangir

- Meet the Team
- Introduction
- Problem Statement
- Solution
- Solution Architecture
- Financial Evaluation & Tier Revenue Model
- Future Scope & Implementation Plan
- Model Demo





Meet the Outstanding Data Alchemists



Ryan Brotman STRATEGIST McGill University MMA & B.com



Shaher Yar Jahangir **PROJECT** MANAGEMENT McGill University MMA



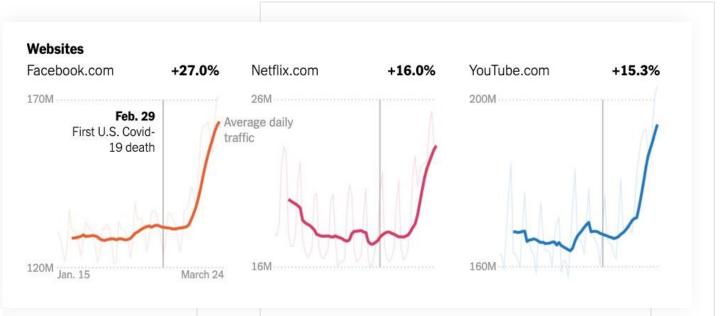
Devanshu Khurma **TECHNOLOGY** McGill University MMA

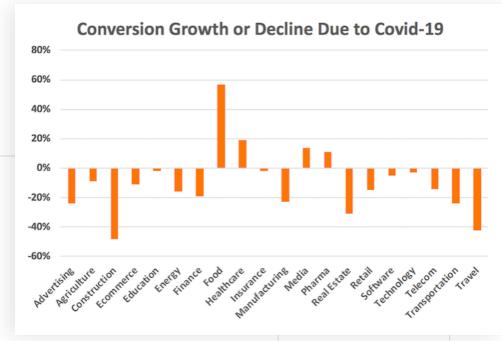


Krati Sharma TECHNOLOGY McGill University MMA



Introductio n





COVID-19 Pushes Up Internet Use 70% And Streaming More Than 12%, First Figures Reveal



Mark Beech Former Contributor ①
Hollywood & Entertainment

19,477 views | Mar 25, 2020, 03:49pm EDT

Phere is semuch data being created every minute that multinational companies can barely keep up.

How are the smaller companies going to be able to navigate and digest the wild seas of constant online marketing data being generated from various platforms in the future?

Inefficiencies

- Money spent on marketing campaigns yearly, Small-to-medium enterprises (SMEs): 7-8% (SBA,2020) of total revenue on marketing, ¼ gets wasted
 - For example, if sales are \$1,000,000 annually, 7-8% percent would mean spending approximately \$80,000 on advertising, \$20,000 wasted

Opportunities

- Democratize online marketing business intelligence
- Ability to distinguish successful campaigns from futile marketing



Target Market

Small-to-medium sized enterprises (SMEs) that do not

have a dedicated analytics department and provide young

corporations with a level playing field.

There are almost 1.1 million SMEs in Canada, more than half (55%) having fewer than 4 employees.

SMEs represent 54.2% of the economic output produced by the business sector (bdc, 2020)

Source: Business Development Bank of Canada

https://www.bdc.ca/en/articles-tools/business-strategy-planning/manage-business/pages/10-things-didnt-

know-canadian-sme asny

Solution Approach 3-Step Approach

- Descriptive: Summary Statistics of current online marketing campaigns from various platforms
- Predictive: Forecasting performance of a new campaign based on consumer engagement data
- Prescriptive: Al driven marketing insights guiding the user to build a more successful future campaigns



Achievable

- User behaviour data from various social media platforms gives us enough data to generate insights
 - Utilize past data such as # of emails sent & time to predict success of future marketing campaigns

Value



Minimization of futile marketing campaigns

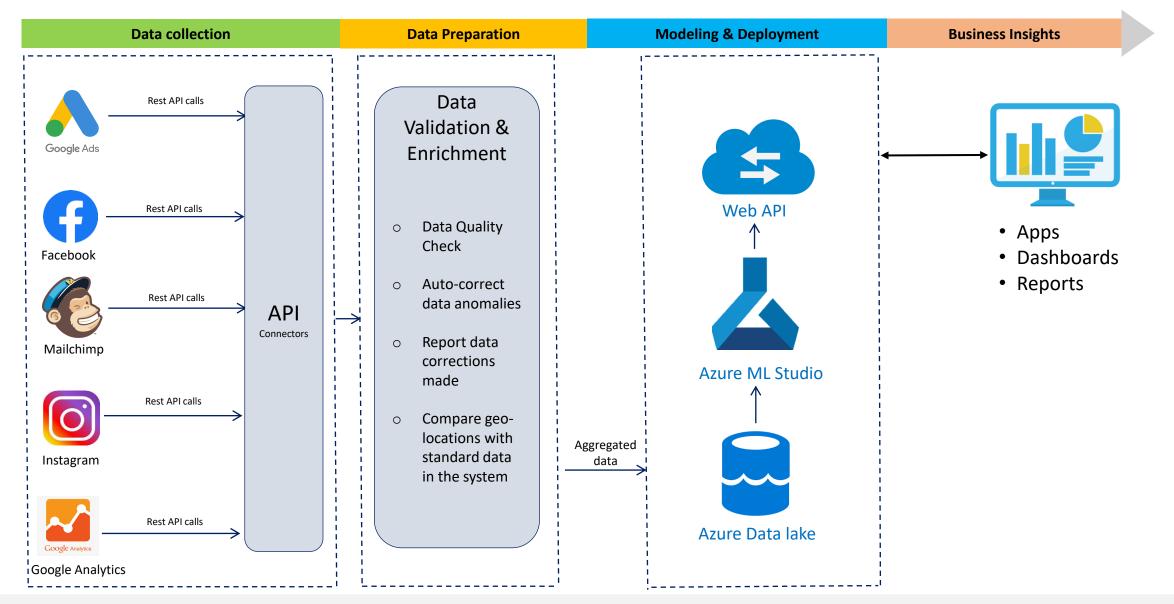


Real time campaign performance



Customer segmentation, Improved conversion

Solution Architecture



Financial Evaluation & Tier Revenue Model

1.1 million SMEs in Canada

- 80% (use Online Marketing), 5% (would adopt solution), 20% (have marketing analyst) = 8,800 businesses
- Platform Administrator Salary of \$76 per hour (Glassdoor)
- 260 workdays in a year

Financial Implications

\$19,760 saved annually per SME

- Risk Averse Assumption: Average analyst: 1, Analyst spends 2 hours daily on marketing data, solution saves 1 hour.
- 99.8% businesses are Small-to-Medium (SME) enterprises
- Valuation Formula: (Salary cost after

3-Tier Revenue Modelion * workdays)

Platinum (High) - \$325 / month

Perspective Analysis to display data driven campaign recommendations & trends across platfo Annuially With Connections

\$15,840 Savings

Platinum Plan!

Silver (Medium) - \$109 / month

Predictive Analysis using Machine Learning model to predict # of clicks on future

campaigns

Bronze (Low) - \$25 /month

Descriptive Analysis using Power BI dashboard to display summary

Future Scope & Implementation Plan

Sustainability & Scalability

Feasibility

Usability

- # of new SMEs rising leading to a greater need to optimize marketing campaigns
- Straightforward approach leveraging integrable industry standard tools and techniques.
- Development of user-friendly dashboard highlighting key metrics

- Continuous growth of E-commerce with newer platforms
- Use of cloud deployment for real time o Freshly Baked Updates predictions

Formation (2-3 Months) **Validation (6-8 Months)** Growth Mission > Vision > Strategy **Lean Startup** Scale Up Establish Processe Minimum Idea and co-founder team formation Pivotin s & KPI's Viable g & What, To Whom, Why and How? Strength **Product** Iterati (MVP) en ons

Prototype DEMO

Get Your Popcorn Ready!



Appendix 1 – Business Model Canyas, Name: Date:

The Business Model Canvas

02/22/20

X Primary Canvas

Alternative Canvas

Key Partners

- · Key Partners: SMEs in Canada that lack analytics capabilities
- Key Suppliers in the form of data: Mailchimp, Facebook, Twitter, Google Analytics, Google Ads and more
- Receive online marketing campaign data from key partners
- No limitations as to what SMEs can become key partners

Key Activities

- · Requires completed or ongoing marketing campaigns on platforms where we can obtain data
- Provide a level playing field for young companies who cannot compete in terms of analytics

Key Resources

- · Data, data and more data (and permission to access it)
- · Power BI, Microsoft Azure
- ActualConversion API connectors

Value Proposition

- Insights into success or failure of online marketing campaigns
- · Predictive modeling to focus resources on value-added marketing campaigns
- Knowledge on how to improve future campaigns and on which platforms to implement them
- Dashboard where crucial information is aggregated
- Said information is presented and visualized in a clean and easy-to-understand manner so that data analytics knowledge is not required by key partners

Customer Relationships

- · Providing both a selfservice dashboard product to customers
- Service: Insights into marketing campaigns and ways to improve them
- Product: Aggregated dashboard where clients can derive similar insights on their own through simple yet thorough metrics. visualizations and comparisons

Channels Current

 Capture customers through advertising, rereferrals

Future

· Al assistant, message centers, updates on dashboard, emails

Customer Segments

- Creating value for SMEs without analytics departments but who want to use data to improve overall marketing business
- · No limitations as to what businesses or markets can use our solution
- · Agencies that are customizable to B2B needs

Cost Structure

- Production
 - Cloud infrastructure such as storage servers
 - Future Ad-on integrations
 - API maintenance & development
 - Change management costs for AI compatibility with new channels
 - User Interface Design
 - Advertising and marketing
 - Customer acquisition and retention
- POC: costs will be negligible due to Microsoft giving access to multitude of resources

Revenue Streams

- Self-serve SMEs: 4 Tiers of subscription
 - · Tier 1 Freemium: 1-month free usage, 3 API connections No AI insights
 - Tier 2 \$25 per month:
 - Tier 3 \$109 per month:
 - · Tier 4 \$595 per month: 10 API connections with 2 years of historical data and AI insights
- Agencies: 2 Tiers of Subscription
 - · Tier 1: \$750 per month
 - Tier 2. \$1500 per month

Tiers are based on # of API connections they want to offer to customers and number of customers they want to connect to