

GreenBox: End-to-End Marketing Analytics & LTV Prediction

From Raw Data to Predictive Insights

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GreenBox
Sustainable Living Delivered

Executive Summary

GreenBox



A Direct-to-Consumer subscription service focused on sustainable living. The company delivers a monthly curated box of eco-friendly home goods, zero-waste products, and organic snacks to consumers.

Context



GreenBox launched a subscription service but lacked visibility into channel performance and user quality.

Objective



Analyze marketing ROI, validate A/B tests, and build a predictive model to identify high-value users early.

Key Results

Identified Winner



"Save Planet" variant drove **30% higher conversion**.



Cost Efficiency



Facebook yielded the highest ROAS despite higher CPC.



Predictive Power

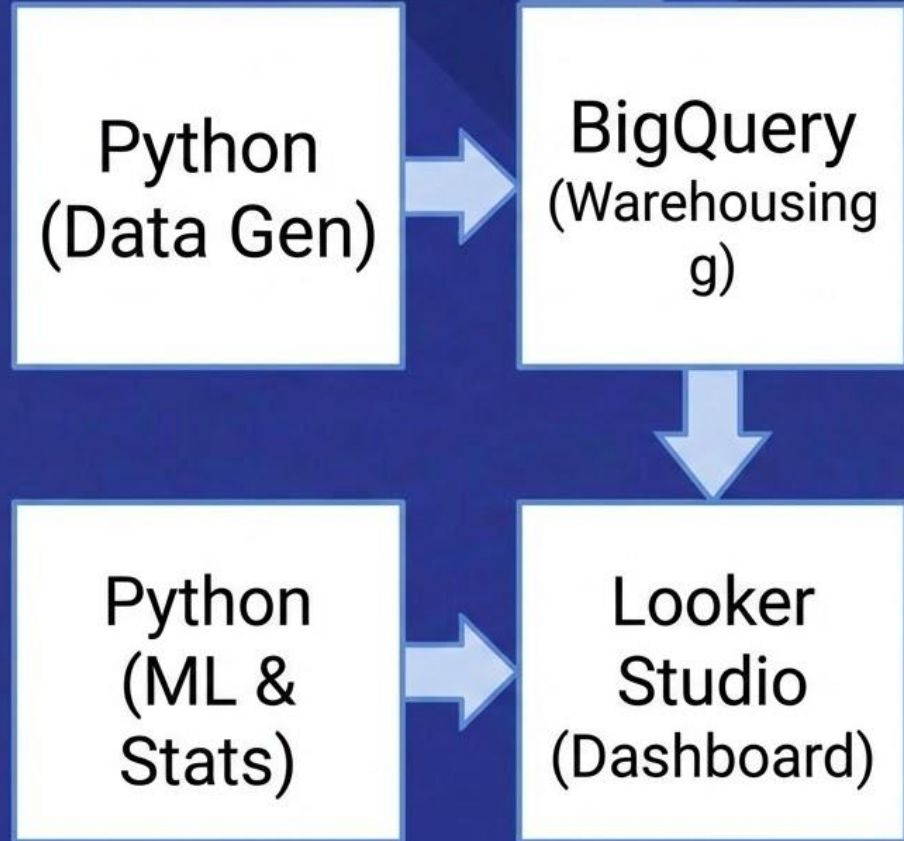


Built an LTV model with **90% accuracy** based on Day 7 behavior.

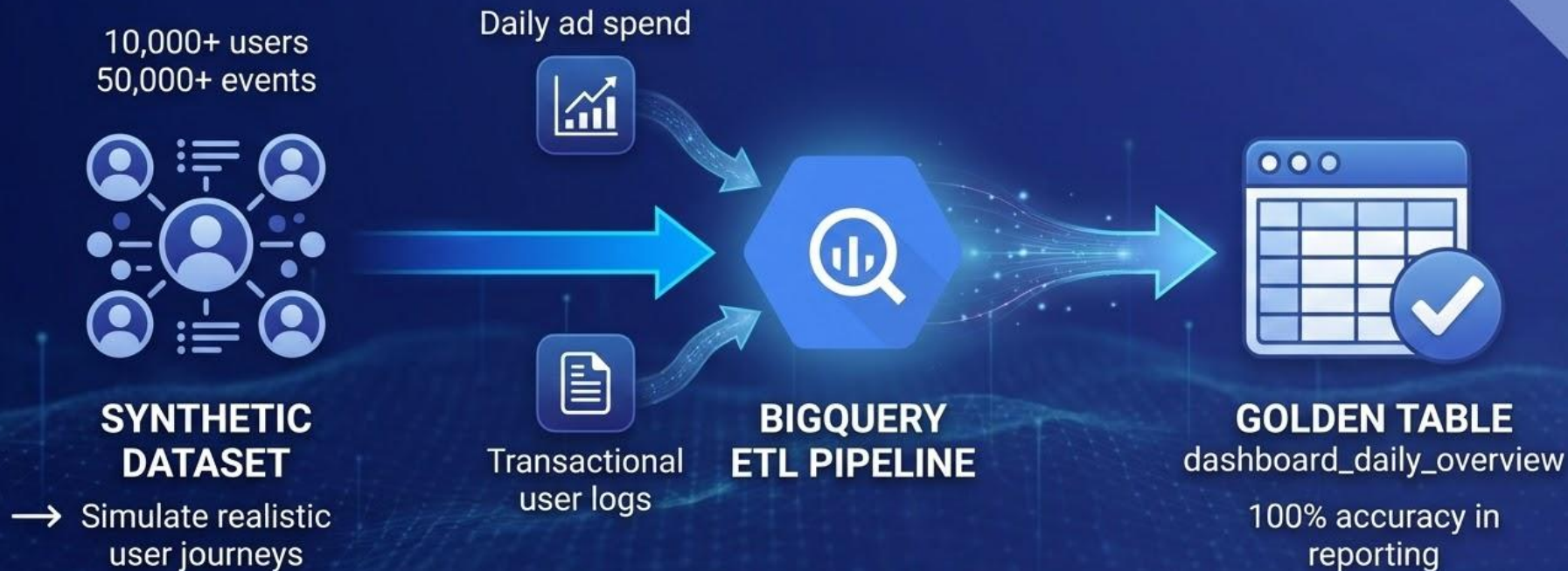


Project Overview

Full-Stack Analytics Pipeline



Handling Scale & Complexity



Facebook Drives Quality Over Volume



FACEBOOK

Cheapest traffic
(Low CPC) but lower
retention.



TIKTOK

Higher acquisition
cost, but significantly
higher **ROAS** (Return
on Ad Spend).



TABLET USERS

Represents ~10% of
traffic with high
purchase intent.



Marketing Analytics Dashboard



Select date range ▾

channel ▾

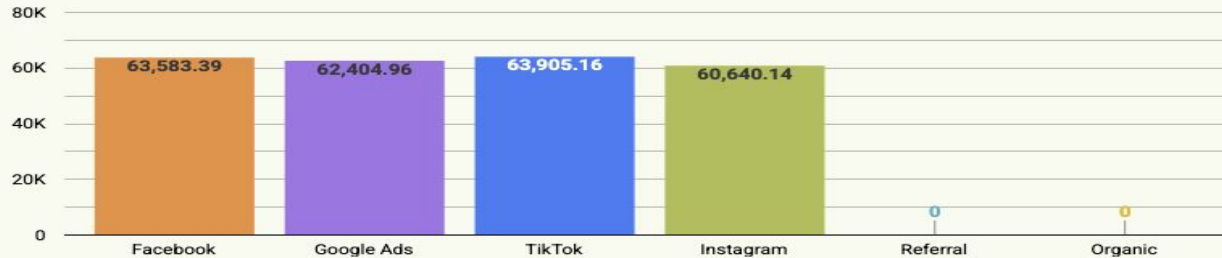
Total Spend
250,533.65 €

Total Revenue
110,527.89 €

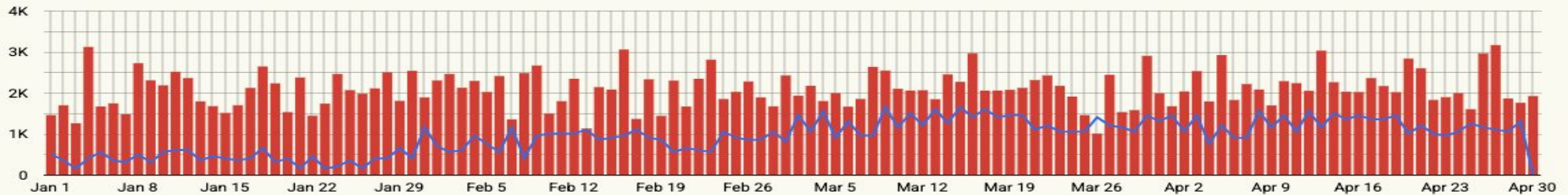
ROAS
44%

CPA
113.31 €

Channel Performance



Revenue and Spending Trends





"Save Planet" Messaging Wins

The "Save Planet" Messaging Wins

The Math:



Hypothesis: Does sustainability messaging improve conversion?

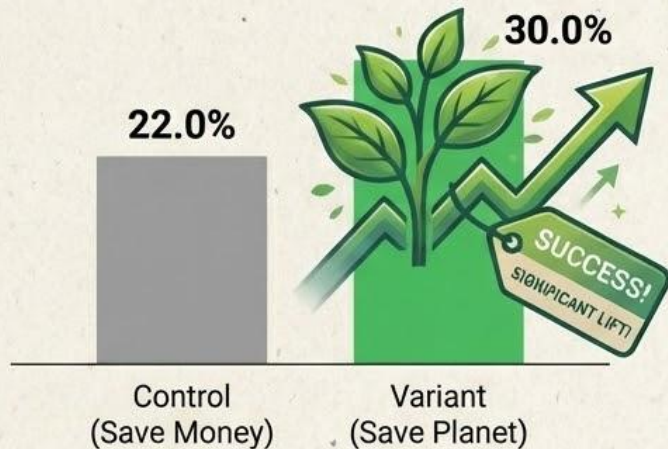


Method: Chi-Square Test ($p < 0.05$).



Result: Statistically Significant. The lift is real, not random chance.

A/B Test Impact: Sustainability Messaging vs. Control



Predicting Customer Value on Day 7

Key Discovery:



Users who **'Add to Cart' > 2 times** in the first week but **don't buy** are the highest potential targets for retargeting.

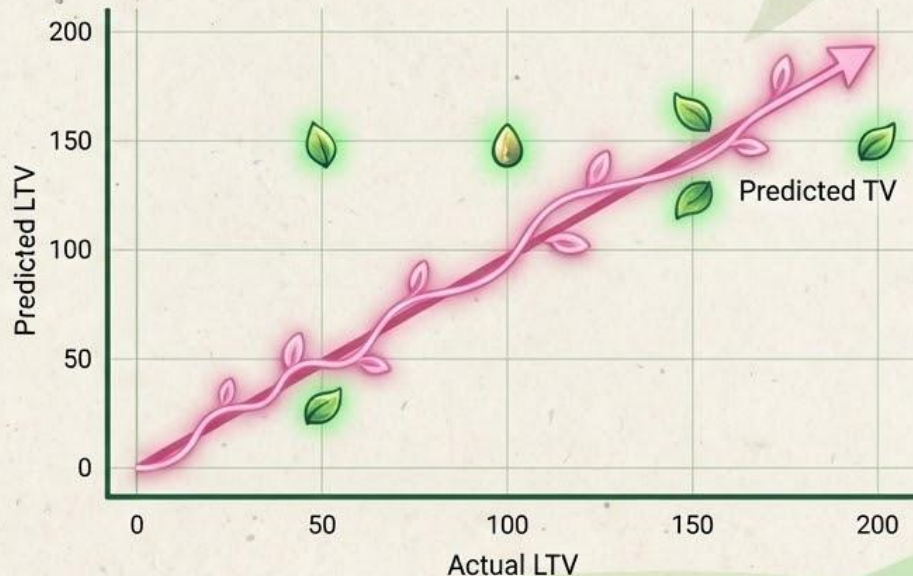


First-week revenue is the strongest predictor of long-term value.



Model: Linear Regression ($R^2 \approx 0.90$)

Prediction Accuracy: Growth Trajectory



Understanding Our User Personas



Window Shoppers:

High views, zero cart adds.
(Strategy: **Low-cost email nurture**).



The Browsers:

High cart adds, low spend.
(Strategy: **Send discount codes**).



Power Users:

High activity, high spend.
(Strategy: **VIP Loyalty Program**).



User Segmentation: Engagement vs. LTV



Action Plan for Growth



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Action 1: Scale Instagram Spend

Shift budget from low-performing display ads to Instagram Reels.



Action 2: Roll out Variant B

Apply 'Save Planet' messaging to 100% of traffic immediately.



Action 3: Retarget "The Browsers"

Launch a specific email campaign targeting users with >2 Cart Adds in Week 1.



Next Steps

Implement the ML model into the CRM to auto-tag "High Value" leads.