

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

From Raw Data to Predictive Insights

**Christopher Bonnin**  
Marketing Analyst



**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

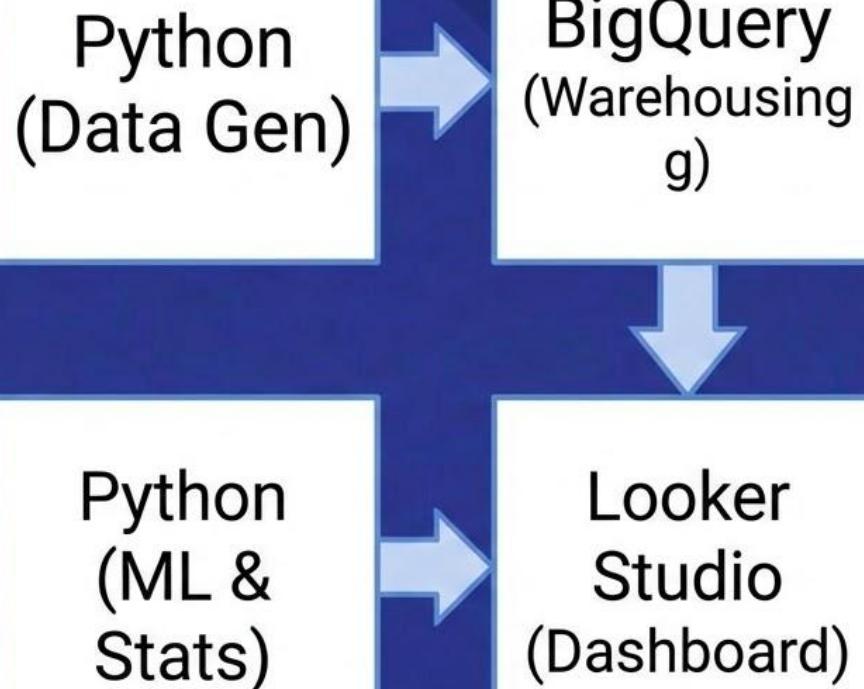


Built an LTV model with **90% accuracy** based on Day 7 behavior.

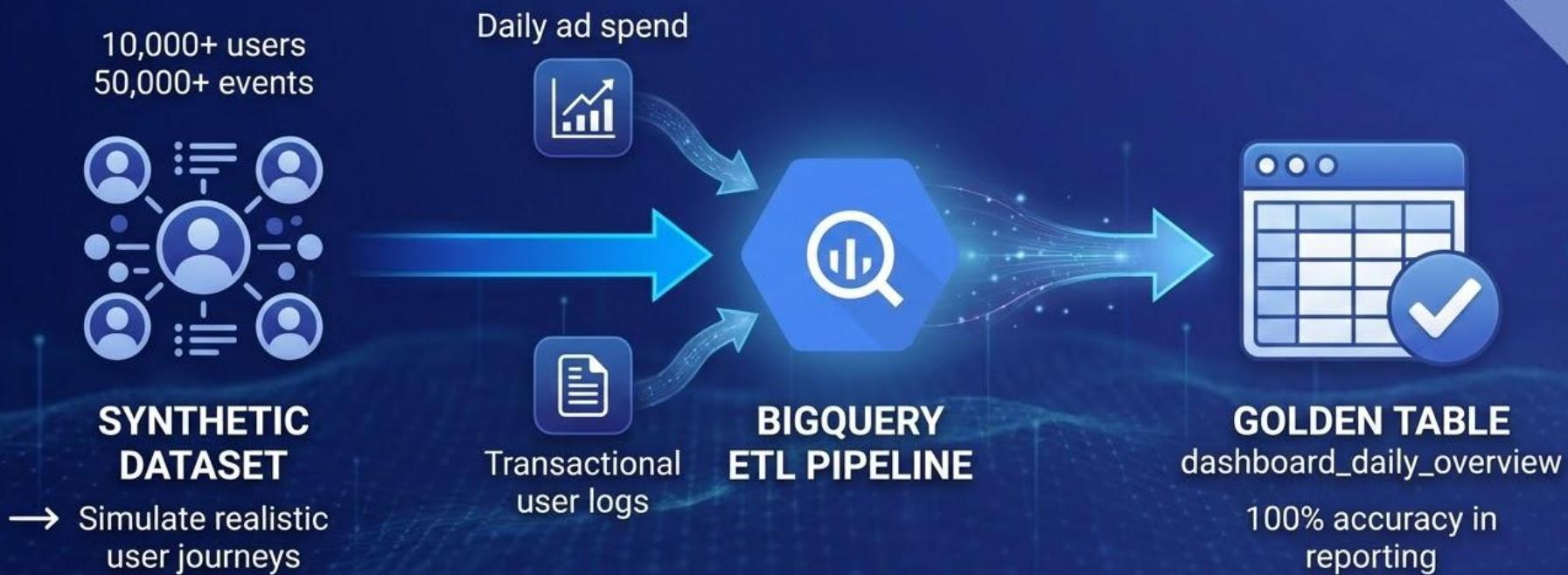


# Project Overview

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

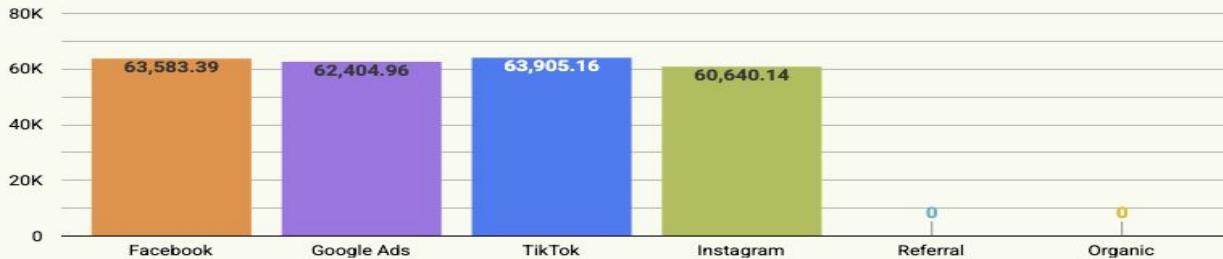
Total Spend  
**250,533.65 €**

Total Revenue  
**110,527.89 €**

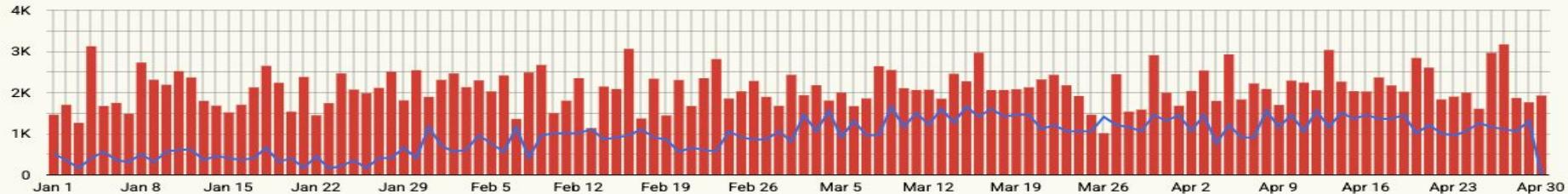
ROAS  
**44%**

CPA  
**113.31 €**

## Channel Performance



## Revenue and Spending Trends

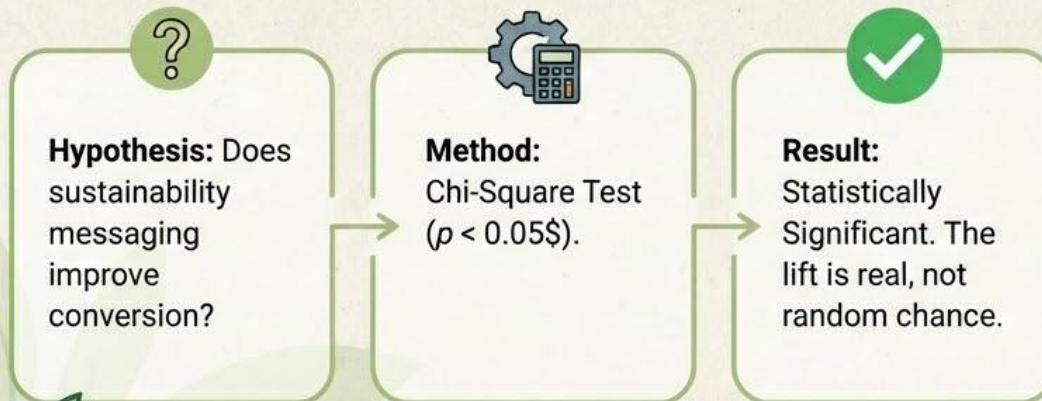




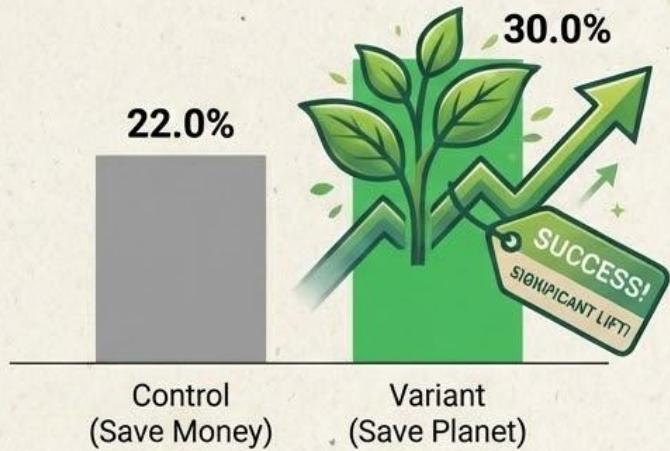
## "Save Planet" Messaging Wins

# The "Save Planet" Messaging Wins

### The Math:



### A/B Test Impact: Sustainability Messaging vs. Control



# Predicting Customer Value on Day 7

## Key Discovery:



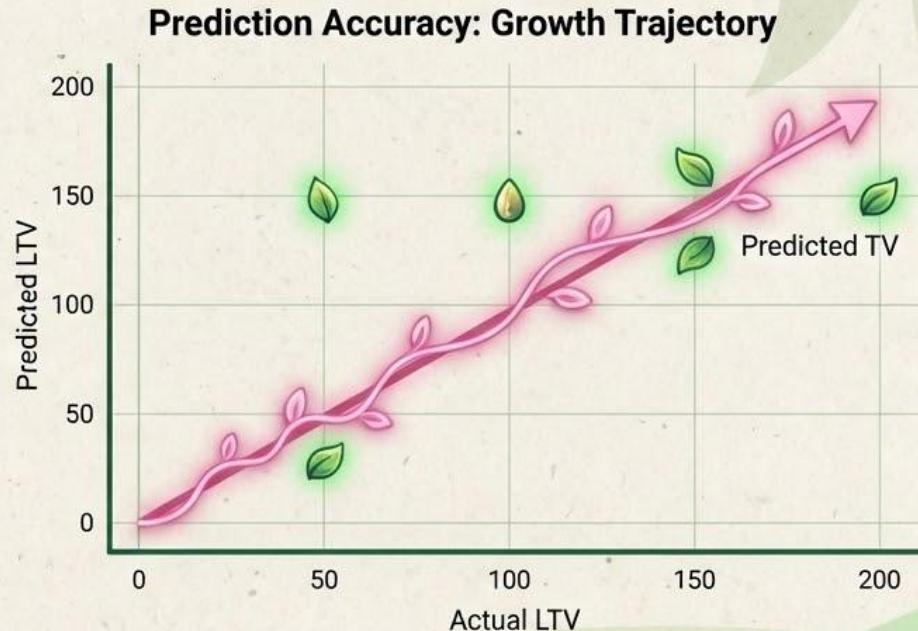
Users who '**Add to Cart**' > 2 times in the first week but **don't buy** are the highest potential targets for retargeting.



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



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



# 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**).

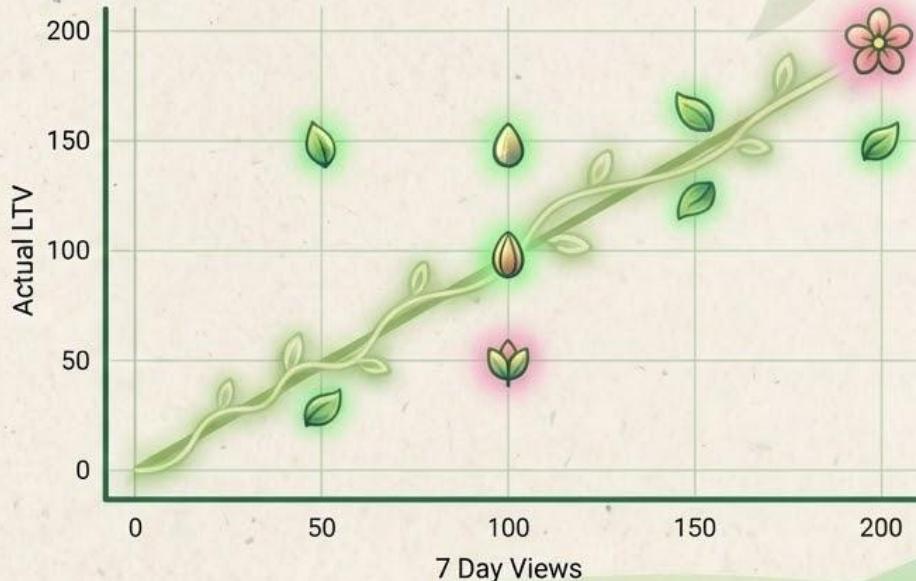


## Power Users:

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.