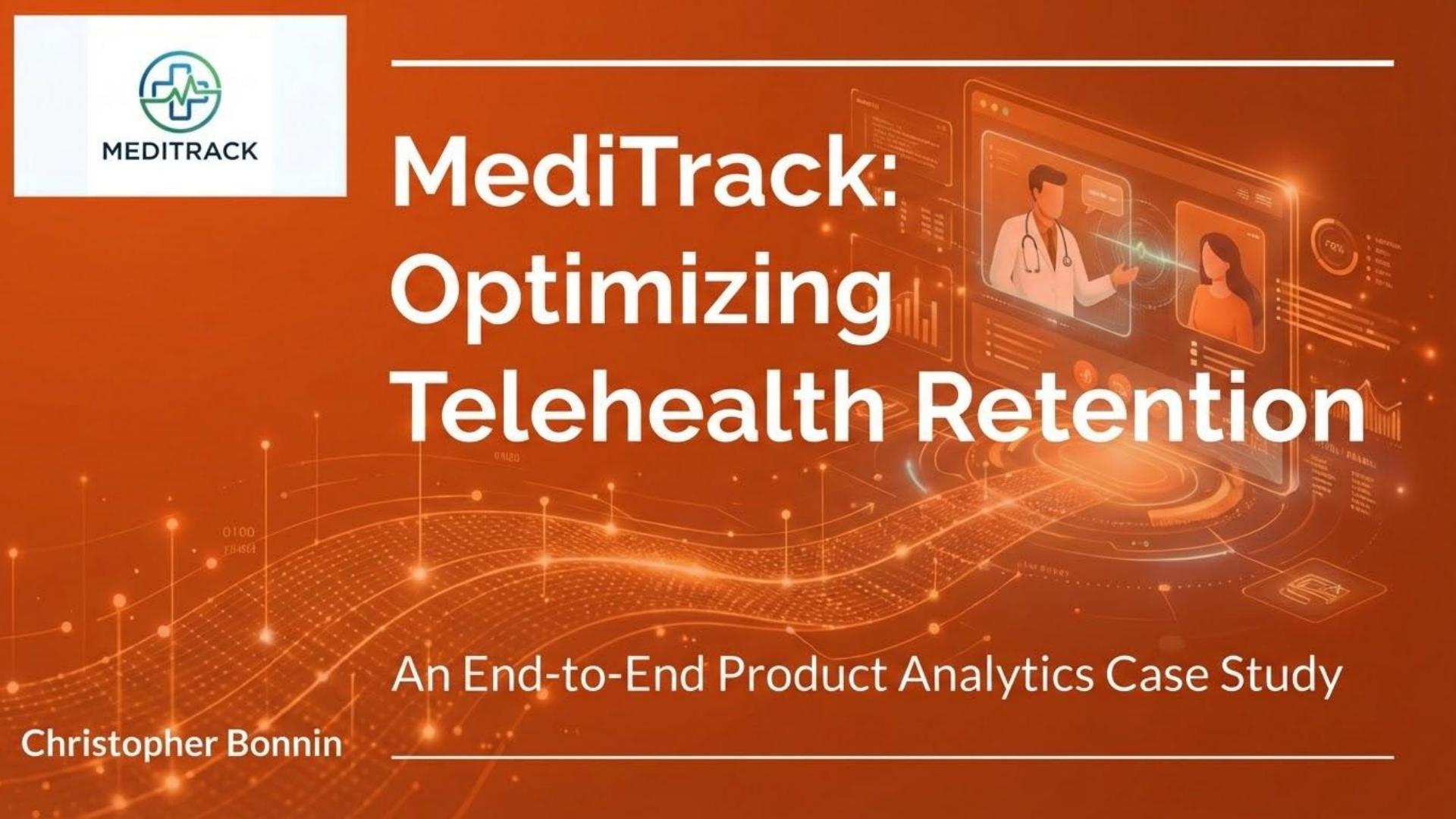




MEDITRACK

MediTrack: Optimizing Telehealth Retention



An End-to-End Product Analytics Case Study

Christopher Bonnin

1. The Challenge

High Drop-off & User Churn



The Context:

MediTrack is a telemedicine app allowing patients to book video consults.



The Problem:

Despite high acquisition, activation rates are low.



The Metric:

We observed a 60% drop-off in the booking funnel.

60% DROP-OFF

Technical Architecture & Tools

I built the entire pipeline from raw data generation to final product prototyping.



Diagnosing the “Funnel of Death”



Action:
Tracked user journey with Amplitude.



Finding:
Bottleneck at
"View Doctor
Profile" step.



Insight: Users
leave when no
availability is
found.

Who is Churning?

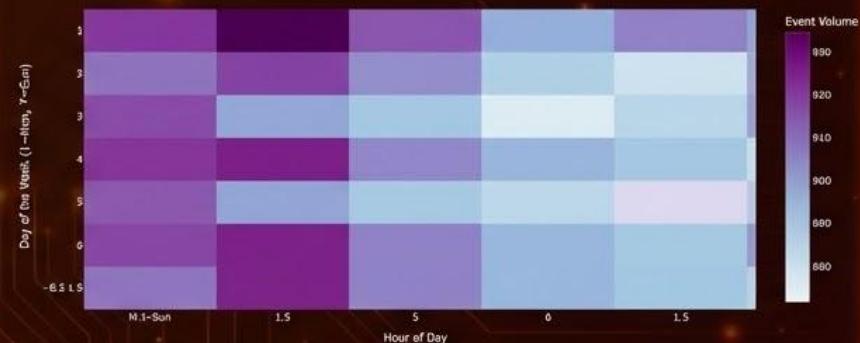
- CPU Analyzed demographic and platform performance using Python and Plotly
- Finding 1:** User Activity is highest Mondays and Thursdays, and steady during the weekends.
- Finding 2:** The percentage of churned users is quite even amongst the three platforms: (Web 34.6%, Android 34.2%, iOS 31.1%)

Churn Breakdown by Platform



Web
Android
iOS

Heatmap: User Activity by Time & Day



Proactive Churn Prevention

MediTrack Product Analytics Dashboard

Batch Overview | Churn Predictor | Doctor Recommender

Predict User Churn

Adjust the sliders to see if a hypothetical user is at risk

User Age
10

Notify For
00

Total Events (biggest)
3

Prod ID: 54



Built a Random Forest Classifier to predict churn probability



Key Drivers: Total_Events and Days_Since_Signup

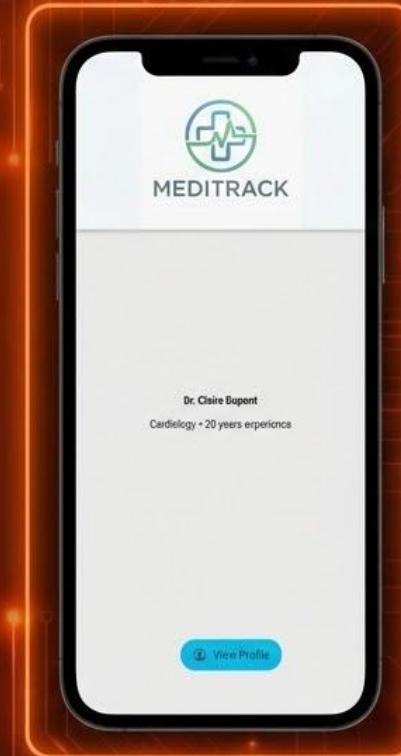


Application: Integrated into a Streamlit dashboard for the Product Team to simulate user risk scenarios

Quick-Book: Reducing Friction

- **Hypothesis:** Surfacing availability *before* the click will increase conversion
- **The Fix:** Redesigned the Search Card to include “Next Available Slot” and “ML Recommendation”

Before



Before

After



After

Executive Reporting & KPIs

- Created an automated dashboard in [Looker Studio](#)
- Tracks DAU (Daily Active Users), Revenue, and Funnel Conversion in real-time



The Launch Plan (A/B Testing)

Measuring Impact



Experiment:

A/B Test (50/50 split)
on iOS users.



Success Metrics:

Increase Search-to-book
conversion from
40% > 50%.



Guardrail Metric:

Ensure "Time to Book"
decreases (efficiency).



Next Steps:

If successful, roll out
to Android fixing
performance bugs.

Summary & Impact

Project Impact

Data



Engineered a pipeline
for 5000+ events

Insight



Uncovered a 60%
funnel drop-off

Action



Proposed a UI change
estimated to boost
revenue by 10%