

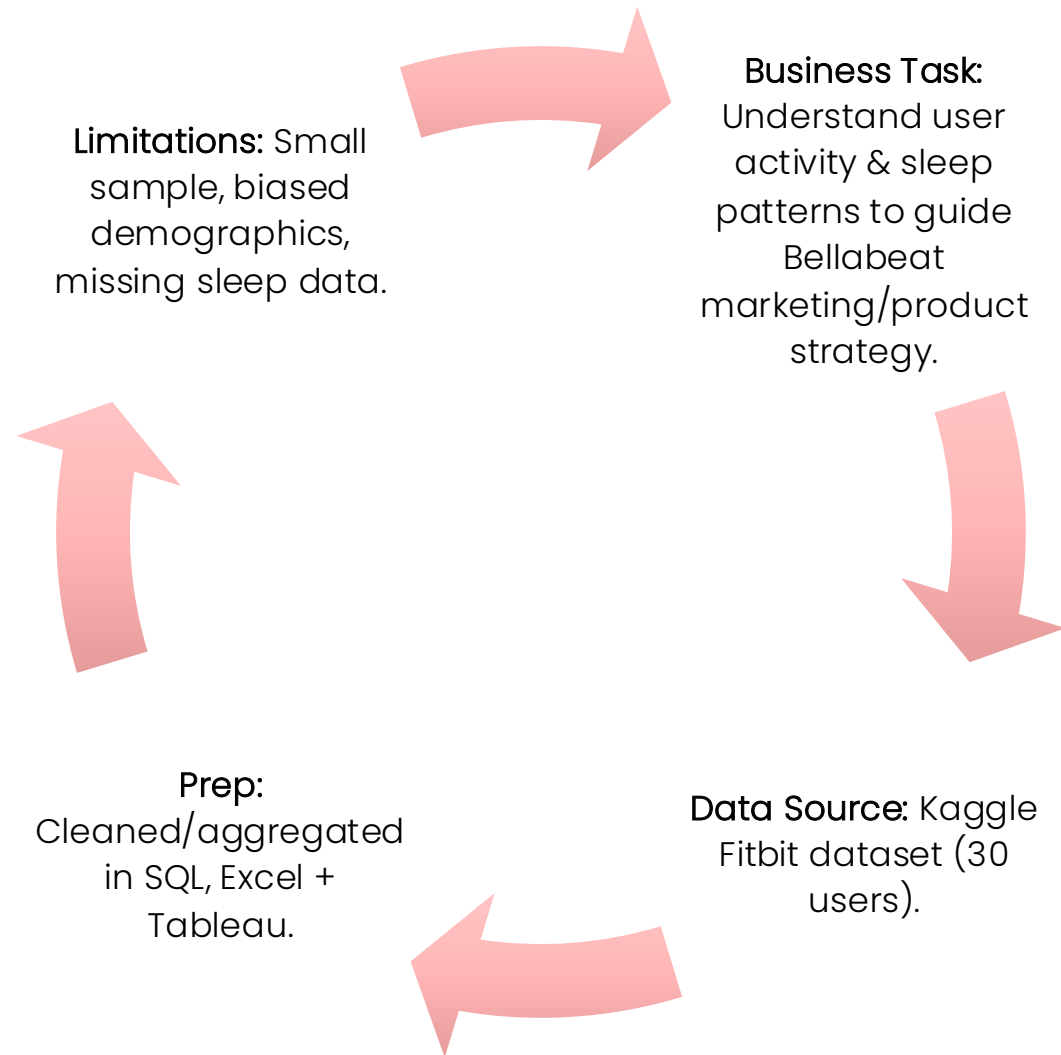


BELLABEAT: SMART USAGE INSIGHTS → MARKETING ACTIONS

- Case study using Fitbit dataset (30 users, CC0)
- Cleaned in BigQuery (SQL) + Excel, visualized in Tableau

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BUSINESS TASK & DATA



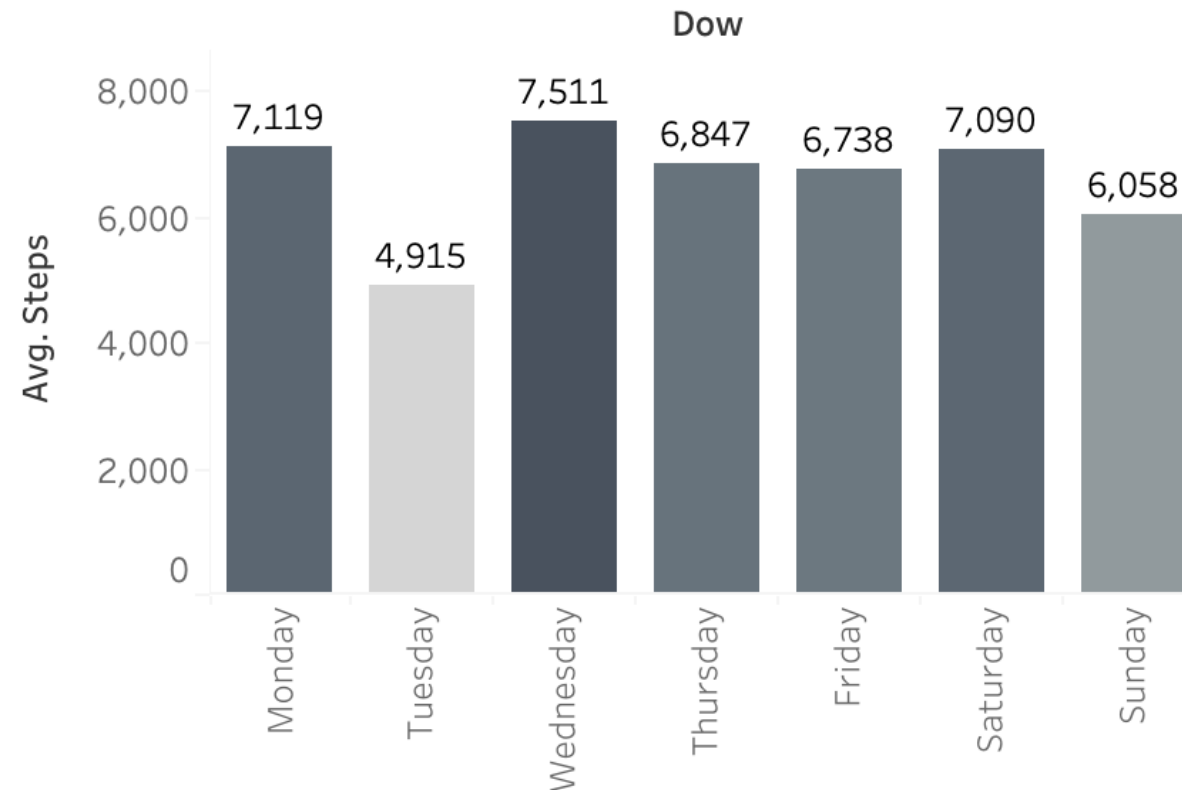
PATTERNS (WEEKDAY ACTIVITY)

- Highest steps: Wednesday (7,500) & Saturday (7,000).
- **Lowest:** Tuesday (4,900).
- Insight: Midweek + weekend = best for engagement campaigns.

A) Average daily steps by weekday

30 users; sample CCO Fitbit

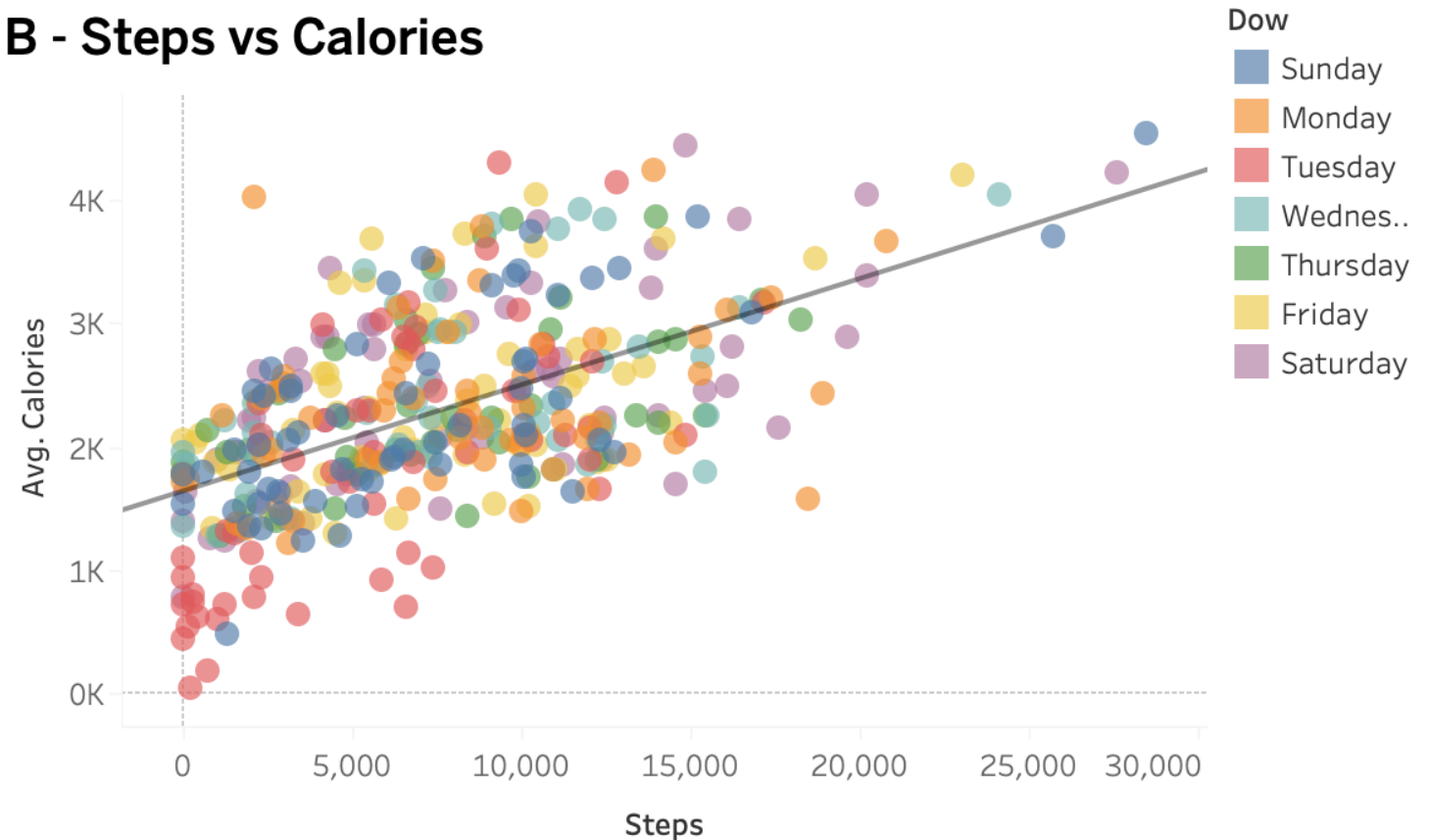
Pct Vs Overall



RELATIONSHIP (STEPS & CALORIES)

- Strong **positive correlation**: more steps → more calories burned.
- Validates Bellabeat trackers for fitness/weight management use cases.

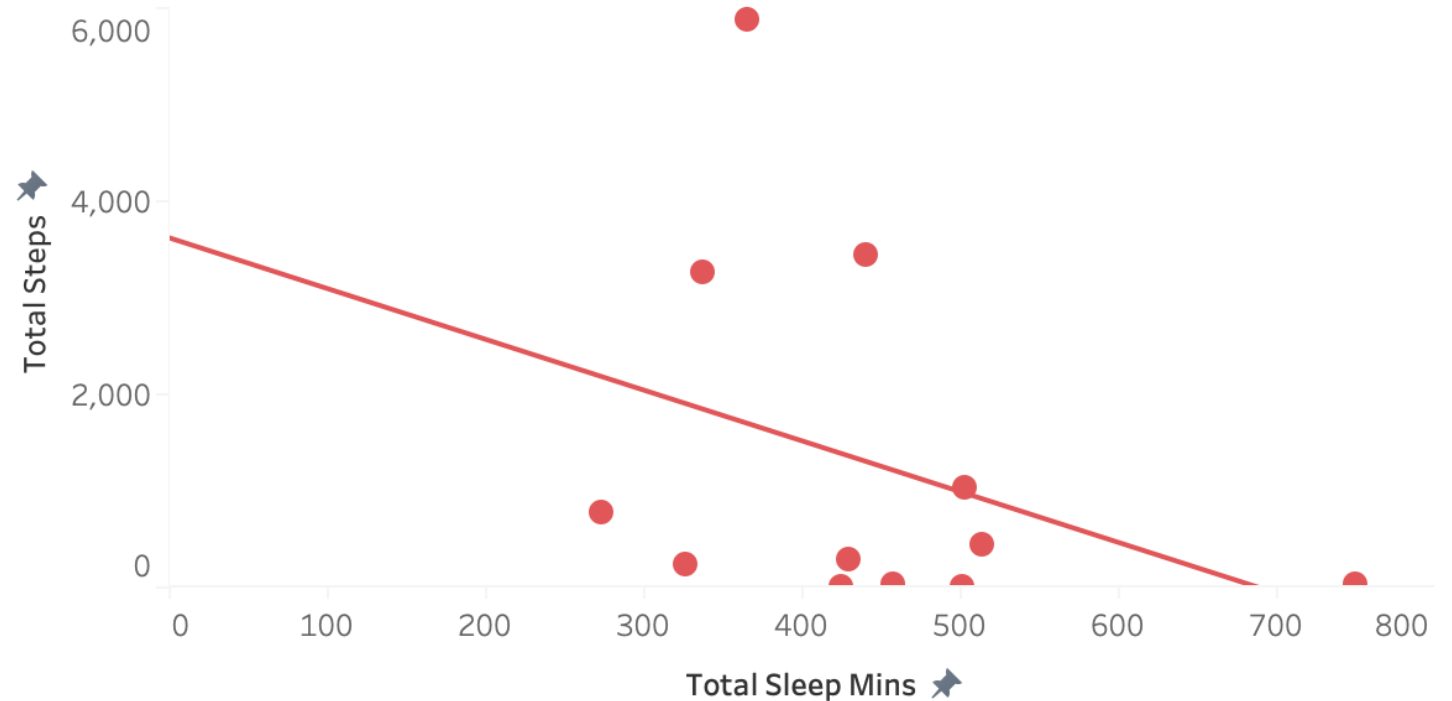
B - Steps vs Calories



SLEEP VS ACTIVITY

- Slight **negative trend**: users with <6h sleep average 4,000 steps vs 7,000 for those with 7–8h.
- Caveat: sparse data (only 12 users logged sleep).
- Suggests recovery impacts activity → opportunity for sleep coaching nudges.

C - Sleep vs Steps

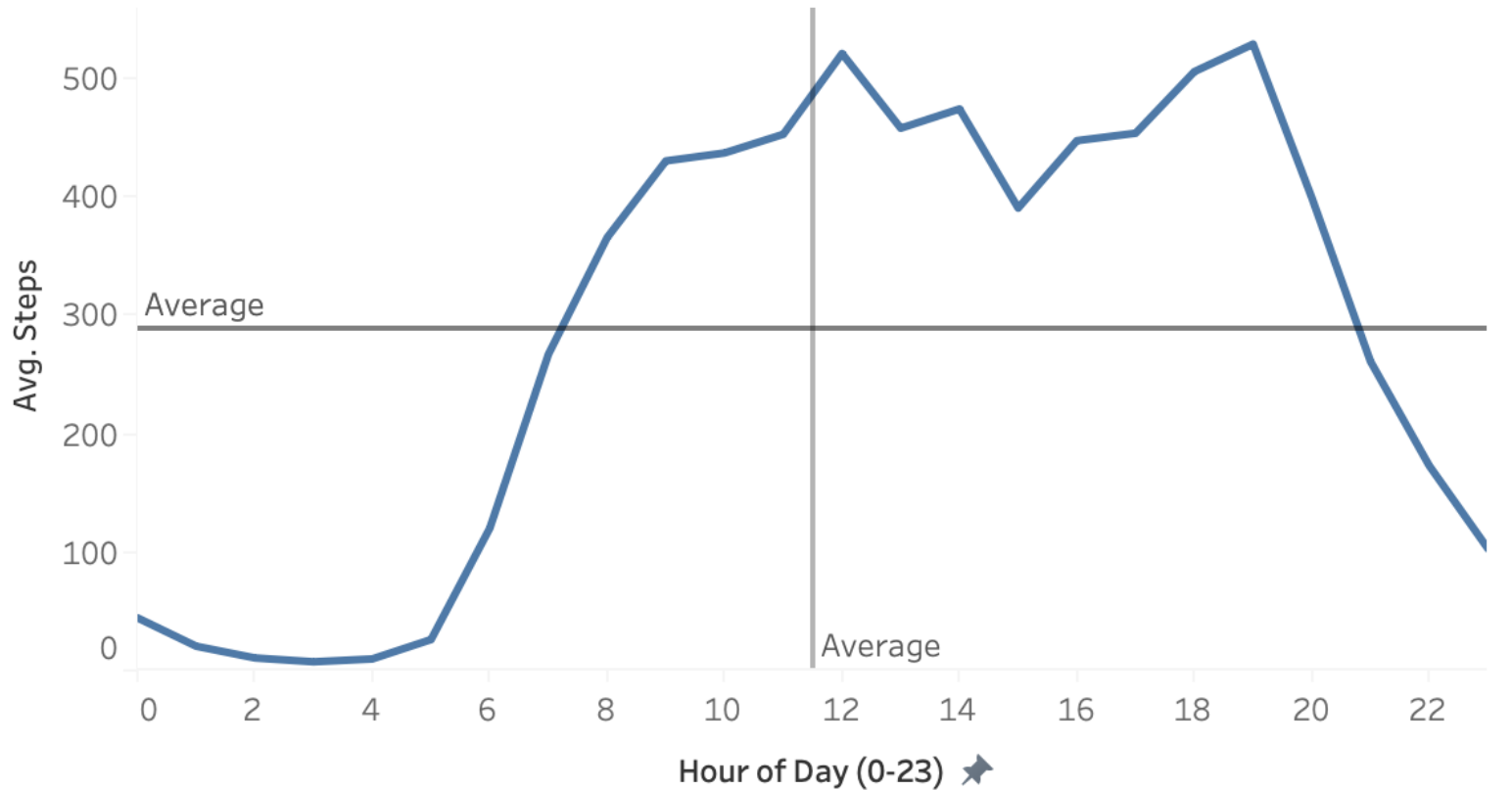


Only 12 days have both sleep + steps recorded; limited sample size.

HOURLY RHYTHM

- Steps lowest overnight (0–5 am).
- Peaks at 12–1 pm and 6–8 pm.
- Insight: Ideal notification times = 11:30 am & 5:30 pm (pre-peak nudges).

D) Average steps by hour (0-23)



Recommendations for Leaf Tracker

1

Timing prompts: Push reminders 30–60 min before peak activity hours.

2

Weekday programs: Launch Wednesday & Saturday challenges.

3

Sleep balance: Add bedtime reminders + gentle alarms for <6h sleepers.

4

Sedentary alerts: Trigger nudges after 2 hours inactivity.

5

Upsell opportunity: Promote premium coaching around peak times.