Dataset: oura SleepData.json

Format: JSON file

Sleep Monitoring Device: Oura Ring

Dates Monitored: 02/29/2024-03/08/2024, 03/19/2024-03/21/2024, 03/23/2024, 03/25/2024.

Description: For each night of sleep, variables measuring sleep time, sleep respiration rate and various other factors were collected using an accelerometer and infrared photoplethysmography sensors. Oura data monitors more sleep variables than Garmin, so most of the sleep data will not be used in this analysis.

Variables (unused variables will be labeled N/A):

"average breath": Average respiration rate during sleep.

"average_breath_variation": Variation of respiration rate during sleep.

"average heart rate": Average heart rate during sleep.

"average hrv": Variation of heart rate during sleep.

"awake_time": Duration of time spent awake during interrupted sleep period in seconds.

"bedtime_end": Timestamp indicating the end of sleep (and time difference from UTC).

"bedtime_start": Timestamp indicating the start of sleep (and time difference from UTC).

"contributors": {

"deep_sleep": Score calculated by Oura based on quality and duration of deep sleep.

"efficiency": Score calculated by Oura to determine quality of sleep efficiency.

"latency": Score calculated by Oura to determine quality of sleep onset latency.

"rem_sleep": Score calculated by Oura to determine
quality of REM sleep.

"restfulness": Score calculated by Oura to determine quality of restfulness.

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"timing": Score calculated by Oura to determine quality
of sleep timing and whether it is aligned with circadian rhythm.
        "total sleep": Score calculated by Oura to determine
total sleep quality based on amount of sleep.
      },
      "day": Calendar date when sleep variables were measured
(GMT).
      "deep sleep duration": Duration of deep sleep in seconds.
      "efficiency": total sleep duration/time in bed
      "got ups": Amount of times during the night that you got
up from bed.
      "heart rate": {
        "interval": Number of seconds between each time heart
rate was measured.
        "items": measured heart rate for every interval
throughout time asleep
        "timestamp": Timestamp indicating the start of heart
rate monitoring and (and time difference from UTC).
       }
      "latency": Time in seconds from the time in bed until the
time fell asleep.
      "light sleep duration": Duration of light sleep in
seconds.
      "lowest heart rate": Lowest heart rate during sleep.
      "lowest heart rate time offset": N/A.
      "movement 30 sec": N/A.
      "period": N/A.
      "readiness": {
        "contributors": {
          "activity balance": N/A.
          "body temperature": N/A.
          "hrv balance": N/A.
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"previous day activity": N/A.
          "previous night": N/A.
          "recovery index": N/A.
          "resting heart rate": N/A.
          "sleep balance": N/A.
          "sleep regularity": N/A.
        },
        "score": Readiness score generated by Oura the morning
after sleep.
        "temperature deviation": N/A.
      },
      "readiness score delta": N/A.
      "rem sleep duration": Duration of REM sleep in seconds.
      "restless periods": N/A.
      "score": N/A.
      "segment state": N/A.
      "sleep algorithm version": N/A.
      "sleep midpoint": N/A.
      "sleep score delta": N/A.
      "time in bed": Duration of time in bed in seconds.
      "total sleep duration": Total sleep duration in seconds.
      "type": Type of sleep. (Sleeps that take place each night
are characterized as "long sleep" by Oura).
      "wake ups": Amount of times woken up throughout the night.
      "sleep phase 5 min": N/A.
      "restless": N/A.
      "timezone": N/A.
      "bedtime start delta": N/A.
      "bedtime end delta": N/A.
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"midpoint_at_delta": N/A.
}
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