



Take-Home: *Mood of the Queue*

Role: Data Scientist, Operations - SF

Time Limit: ~30 minutes

Goal: Show your ability to ship simple, clean tools quickly using Python



Background

Our Ops team handles hundreds of patient support tickets every day. These tickets have a *vibe*—some feel frustrating, others are joyful, some just confusing.

We want to capture that vibe as it happens.

This tool will help support agents log the *mood* of the ticket queue throughout the day, and visualize the emotional trend.



Your Task

Build a simple internal tool that allows a user to:

1. **Log a Mood**
 - Select a **mood** (dropdown or emoji button — e.g., 😊 😡 😞 🎉)
 - (Optional) Add a short **note** (e.g., “lots of Rx delays today”)
 - On submit: append the entry (timestamp, mood, note) to a **Google Sheet**
 2. **Visualize the Mood**
 - Show a **bar chart** of mood counts for *today*
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Constraints

- Language: **Python**
 - UI: **Streamlit** preferred (or Flask + basic HTML)
 - Storage: **Google Sheets**
 - Charting: Use matplotlib, plotly
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✨ Bonus (Optional)

- Auto-refresh the chart
 - Group by day or allow filtering
 - Add subtle UI polish or interaction niceties
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📦 Deliverables

Please submit:

- A link to the deployed app (or a Loom walkthrough if run locally)
 - A GitHub repo with your code and clear README
 - A link to the backing Google Sheet
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🔍 What We're Looking For

- Ability to build fast, useful internal tools
 - Clean, readable, and pragmatic Python code
 - A sense of taste—do you know when to stop?
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🕒 Time Management

Do not spend more than **~30 minutes** on this. We're not testing polish—we care more about your instincts, and clarity of thought.

Don't overthink it. Treat it like something you'd hack together for your team on a Friday afternoon to unblock someone.

Good luck—we're excited to see your thinking in action!