# **🗓 Sprint Task Breakdown – Version 2.1 (Feedback-Aware AI)**

**Timeline:** Jan 3 – Jan 30  
 **Goal:** Collect user feedback on AI-generated study guides and leverage it for future LLM prompt refinement.

## **🌀 Sprint 12: Jan 3 – Jan 16**

**Sprint Goal:** Collect feedback on AI guides from users

### **✅ Frontend Tasks**

* Add thumbs up/down icons **for each study guide as a whole** (not per section)
* Add optional feedback textbox (visible after downvote)
* Show confirmation toast/snackbar after feedback submission
* Add multilingual support (EN/HI/ML) for all new UI strings: voting, feedback prompt, submit, and confirmation

### **✅ Backend Tasks**

* Create Firestore schema: guide\_feedback (guide ID, user ID, vote, comment, timestamp, prompt\_version)
* Prevent duplicate voting (user + guide ID constraint)
* Build admin feedback export dashboard (CSV export or Google Sheet sync)
* Extend study\_guides schema to reference cumulative feedback score and thumbs breakdown

### **✅ DevOps Tasks**

* Create automated weekly export of feedback logs (scheduled Supabase function or GitHub Actions)
* Add spam detection rules:  
  + Profanity check (basic regex)
  + Excessive character repetition
  + Emoji-only or gibberish detection
  + Rate-limit feedback (e.g., max 5 per 30 mins)

### **⚠️ Dependencies / Risks**

* UX friction if feedback feels like a chore
* Spam filtering may miss subtle abuse or sarcasm

## **🌀 Sprint 13: Jan 17 – Jan 30**

**Sprint Goal:** Use feedback to improve LLM prompt quality (without fine-tuning)

### **✅ Frontend Tasks**

* Display guide rating score (e.g., “92% found this useful”)
* Highlight top-rated guides on homepage as "Most Helpful This Week"
* Add localized feedback reasons if selected (e.g., "Too Short", "Not Clear")

### **✅ Backend Tasks**

* Tag low-rated guides for admin review (score below 40% with >20 votes)
* Dynamically modify prompts based on common negative feedback tags
* Link feedback metadata to generation request (prompt version, model used)
* Store guide-level feedback score and auto-flag guides for manual moderation

### **✅ DevOps Tasks**

* Enable logging for generation parameters (prompt version, guide ID, model)
* Add auto-rotation rules: if a prompt template gets >40% downvotes from 50+ users, it rotates to next version
* Track analytics events:  
  + vote\_cast
  + feedback\_submitted
  + guide\_tagged\_for\_rotation
  + prompt\_version\_switched

### **⚠️ Dependencies / Risks**

* Prompt tweaks alone may not fix deep model issues
* A/B testing loop might be needed to confirm prompt improvements