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| 🧩 Industry Challenges | Teachers spend hours manually reading and summarizing open-ended student feedback, which delays improvements and limits time for instruction. |
| 👤 Who Experiences the Problems | K–12 and higher education teachers and instructors in public and private schools. |
| ✨ LLM Solution Value | Automatically categorize and summarize open-ended student feedback, enabling teachers to focus more on teaching and less on admin work. |
| 🎯 Tool Function or Purpose | A summarizer and categorizer for open-ended student feedback that helps teachers quickly identify key themes, sentiments, and action points—allowing them to focus more on improving instruction than reading raw responses. |
| 🛠️ Tasks Performed | • Auto-summarize open-ended feedback → Generate concise summaries of recurring student comments. • Classify feedback into categories → Tag comments as related to teaching style, pacing, clarity, course materials, etc. (Can also apply to any event-related feedbacks conducted by the school) • Perform sentiment analysis → Detect whether feedback is positive, neutral, or negative. • Highlight actionable insights → Surface suggestions or requests that require a teacher’s response. • Generate visual summaries → Provide word clouds, pie charts, or theme heatmaps for quick overviews. |
| 🔄 Data Flow / Process Overview | 1. Teacher uploads feedback file (CSV or form submission from students) - replace with text only for now 2. API receives the data → NLP model processes each comment 3. Sentiment and category analysis → Tags applied to each entry 4. Summary generation → Key themes and suggestions are extracted 5. Results returned to user → Teacher sees a dashboard with visual and text summaries |
| 🚫 Tool Limitations | Cannot fully detect super specific school cultural context (may need to add appropriate prompt/instructions) May need human validation for edge cases or emotionally sensitive feedback Model performance may degrade with very short responses (e.g., “OK,” “Nice”) or highly ambiguous wording |
| 💰 Revenue Streams | Time Saved = Cost Saved: Reduces 4–6 hours/week of manual feedback work per teacher, freeing time for lesson planning and reducing burnout |
| 📈 Key Metrics | Average time saved per teacher per week (target: 4+ hours) Accuracy rate of auto-categorization and sentiment tagging (target: >85%) User satisfaction score from teachers/admins (target: 4.5/5) - user-friendly and can be easily integrated with their existing workflow Uptake rate: % of teachers actively using the tool each month Turnaround time from upload to summary (target: under 5 minutes) \*reference for benchmarking |