**🆕 What Can We Add (Features-wise)**

**🔹 Basic NLP Enhancements**

* **Capitalize First Letter of Each Sentence**  
  Helps format poorly written inputs like social media posts.
* **Find Readability Score (Flesch, Gunning Fog)**  
  Helps understand how easy/hard the text is to read.

**🔹 Advanced NLP Enhancements**

* **Named Entity Recognition (NER)**  
  Extracts names of people, places, orgs — useful for resumes, news, etc.
* **Topic Modeling (LDA)**  
  Auto-detects main topics in longer documents.
* **Text Similarity (Cosine Similarity or Jaccard)**  
  Compare two pieces of text (e.g., plagiarism check or resume-job match).

**🔹 Sentiment Analysis Enhancements**

* **Emotion Detection (anger, joy, fear, etc.)**  
  Goes beyond positive/negative to detect specific emotions.
* **Sarcasm Detection** *(experimental)*  
  Adds an edge when analyzing tweets, jokes, or reviews.

**🔹 Text Visualization Additions**

* **Named Entity Map**  
  Shows entities (e.g., people, places) on a graph.
* **Topic Distribution Pie Chart**  
  Helps visualize dominant themes in a document.
* **Sentiment Timeline Graph**  
  Track sentiment changes over the course of a text (useful for books, speeches).

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**│ └── Compare Sentiments**

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**└── Change Input Method / Exit**

**✅ How It Helps**

| **Feature** | **Helps User By...** |
| --- | --- |
| **NER / Topic Modeling** | Extracting insights from long text (resumes, articles). |
| **Emotion Detection** | Analyzing reviews, tweets more deeply. |
| **Text Similarity** | Useful for recruiters, students, writers (plagiarism check). |
| **Readability Score** | Ensuring audience-appropriate content. |
| **Visualizations (Entity Graphs)** | Making complex data easily digestible. |