## **Sentiment Analyzer Documentation**

### **1. Overview**

A web-based sentiment analysis app offering single-text evaluation, batch processing, model validation, comparative analysis, and report export functionality.

### **2. Navigation**

* **About**: (Content not visible in our snapshot—likely covers purpose and methodology.)
* **Dashboard**: Central hub for analysis features.
* **History**: (Not visible—likely tracking past analyses.)

### **3. Analysis Modes**

#### **A. Single Text Analysis**

1. Manually enter a sentence or paragraph in the text input field.
2. Click **Analyse Sentiment** to receive instant sentiment feedback.

#### **B. Batch File Upload**

1. Upload a file containing multiple text entries.
2. Only the first 20 inputs are processed (demo limitation).
3. Click **Analyse File** to generate results for each entry.

### **4. Model Evaluation (Optional Ground-Truth)**

1. Input text and select its true sentiment.
2. Click **Add to Evaluation Data** to build a labelled dataset.
3. Click **Calculate Performance Metrics** to populate:
   1. Confusion Matrix, Overall Accuracy, and class-wise Precision, Recall, F1‑Scores.

### **5. Comparative Analysis**

1. Enter up to four separate texts.
2. Click **Compare Texts** to obtain:
   1. Sentiment scores, dominant emotions, and visual charts (intensity, distribution, radar).

### **6. Report Generation**

* Use **Clear Analysis** to reset.
* Export reports via **Download Report**, available in PDF, JSON, or CSV formats.

### **7. Footer**

* Site attribution:  
  **© 2025 Sentiment Analyzer | Made with ❤️ by Siyamthanda Dlakavu | All rights reserved.**