

Workshop on LaTeX for Academic, Technical, and Professional Writing

Student(Student ID:)

Department of Computer Science and Engineering
University of Chittagong, Chittagong, Bangladesh
name@gmail.com (✉)

1 Inline Text Manipulation

This is my first LaTeX document.

Microblog platforms such as “twitter”, *sina weibo*, etc. are rapidly moving towards a platform for \informal \informal user-generated information production and consumption. Among the several microblog services, #twitter has become the most popular. The real-time nature of twitter plays an **important role during a disaster period**, **such as earthquakes**, \wildfires and so on. This is because the user-generated twitter posts during such events might be useful to serve the situational information needs ($\approx 59\%$ & 89%). To use underscore it is $X_2 4^{th}$ ©2021.

Suppose we are given a rectangle with side lengths $(x + 1)$ and $(x + 3)$. Then the equation

$$A = x^2 + 4x + 3$$

represents the area of the rectangle.

2 Itemize and enumerate

2.1 The General Type of Itemize

- Explore the image.
- Explore the text.
- Explore the video.
- Explore the sound.
- Create the multimodal data.

2.2 Using the Special Symbol for Item Label

- Explore the image.
- * Explore the image.
- ◇ Explore the text.
- Explore the video.
- ★ Explore the sound.
- Create the multimodal data.

2.3 Numbered Type Itemize

1. Explore the image.
2. Explore the text.
3. Explore the video.
4. Explore the sound.
5. Create the multimodal data.

2.4 English alphabetic Type Itemize (Lowercase)

- a Explore the image.
- b Explore the text.
- c Explore the video.
- d Explore the sound.
- e Create the multimodal data.

2.5 English alphabetic Type Itemize (Uppercase)

- A Explore the image.
- B Explore the text.
- C Explore the video.
- D Explore the sound.
- E Create the multimodal data.

2.6 Roman Numbered Type Itemize (Lowercase)

- i Explore the image.
- ii Explore the text.
- iii Explore the video.
- iv Explore the sound.
- v Create the multimodal data.

2.7 Roman Numbered Type Itemize (Uppercase)

- I Explore the image.
- II Explore the text.
- III Explore the video.
- IV Explore the sound.
- V Create the multimodal data.

2.8 Reducing Space between Items

1. Explore the image.
2. Explore the text.
3. Explore the video.
4. Explore the sound.
5. Create the multimodal data.

2.9 Reducing Space between Items and Provide Special Item Label

- * Explore the image.
- * Explore the text.
- * Explore the video.
- * Explore the sound.
- * Create the multimodal data.

2.10 Reducing Space between Items and Provide Romanized Item Label

- i Explore the image.
- ii Explore the text.
- iii Explore the video.
- iv Explore the sound.
- v Create the multimodal data.

2.11 Reducing Space between Items and Provide Numeric Item Label

- 1 Explore the image.
- 2 Explore the text.
- 3 Explore the video.
- 4 Explore the sound.
- 5 Create the multimodal data.

2.12 Adding Specific Character with Each Numeric Item Label

- B1 Explore the image.
- B2 Explore the text.
- B3 Explore the video.
- B4 Explore the sound.
- B5 Create the multimodal data.

2.13 Numeric Item Label with Bracket

- (1) Explore the image.
- (2) Explore the text.
- (3) Explore the video.
- (4) Explore the sound.
- (5) Create the multimodal data.

2.14 Numeric Item Label with Dot

1. Explore the image.
2. Explore the text.
3. Explore the video.
4. Explore the sound.
5. Create the multimodal data.

2.15 Alphabetic Item Label with dot

- a. Explore the image.
- b. Explore the text.

- c. Explore the video.
- d. Explore the sound.
- e. Create the multimodal data.

2.16 Alphabetic Item Label with dot

- A. Explore the image.
- B. Explore the text.
- C. Explore the video.
- D. Explore the sound.
- E. Create the multimodal data.

2.17 Romanized Item Label with dot

- i. Explore the image.
- ii. Explore the text.
- iii. Explore the video.

2.18 Romanized Item Label with dot

- I. Explore the image.
- II. Explore the text.
- III. Explore the video.
- IV. Explore the sound.

2.19 Circledast label

- ⊗ Explore the image.
- ⊗ Explore the text.
- ⊗ Explore the video.
- ⊗ Explore the sound.

3 Mathematical Equation and Expression

$$e_t = h_t w_a \quad (1)$$

$$a_t = \frac{\exp(e_t)}{\sum_{i=1}^T \exp(e_i)}$$

$$v = \sum_{i=1}^T a_i h_i$$

$$P(m^{(i)}, n^{(i)}) = \sum_{j=1}^k 1\{n^{(i)} = j\} \log(n_j^{\sim(i)})$$

$$\begin{aligned} \text{Combined Span} = & Span[index[1]] \cup \\ & Span[index[1]] \cup \\ & Span[index[1]] \cup \end{aligned}$$

$$\begin{aligned} R_j : & \text{ if } x_1 \text{ is } A_{j1} \text{ and/or } \dots\dots\dots x_n \text{ is } A_{jn} \\ & \text{ then } Class = C_j, \quad j = 1, \dots\dots\dots, N \end{aligned}$$

$$\begin{aligned} & \underset{f_i}{\operatorname{argmax}}((h_i, f_i)) \\ \operatorname{argmax}_{f_i}((h_i, f_i)) \end{aligned}$$

3.1 Nested LSTMs (NLSTMs)

Nowadays, LSTM based deep learning models are the most popular choice for sequential tasks. In our model, we employ the state-of-the-art nested LSTMs (NLSTMs) model where the LSTM memory cells selectively read and write necessary long-term information through accessing their inner memory. Though LSTM is employing $c_t^{outer} = f_t \odot c_{t-1} + i_t \odot g_t$ to estimate it's outer memory cell value, NLSTMs use the concatenation $(f_t \odot c_{t-1}, i_t \odot g_t)$ as an input to an inner LSTM (or NLSTM) memory cell, and set $c_t^{outer} = h_t^{inner}$. Such mechanism helps the NLSTMs to operate on longer time-scales thus capture the contextual information effectively.

4 Figure Inclusion

- Have to use figure in pdf format for scalability and make sure that the font is embedded in that pdf to make sure the font can be seen even if the font is not available in another pc
- Save as pdf from pptx, while at it select 'option' and select ISO

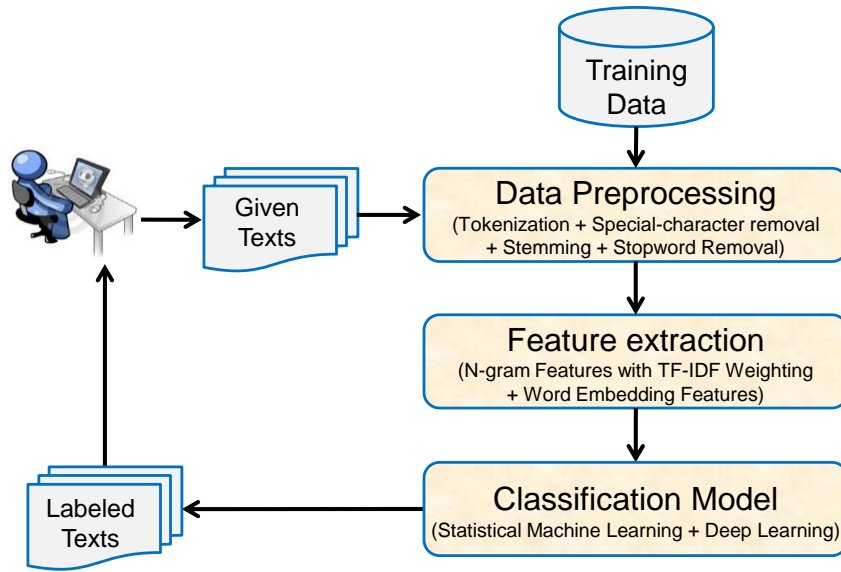


Figure 1: Proposed framework.



Figure 2: Sample of positive (left) and negative (right) sentiment bearing images.

5 Table

Now, we illustrate different types of tables.

Table 1: A sample table.

Col1	Col2	Col3	Col4	Col5	Col6
1	66	98	75	11	66
2	67	257	97	77	23