# Workshop on LaTex for Academic, Technical, and Professional Writing

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## 1 Inline Text Manipulation

Microblog platforms such as "twitter", *sina weibo*, etc. are rapidly moving towards a platform for sample text 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<sup>th</sup> ©2021.

#### 2 Itemize and Enumerate

## 2.1 The General Type of Itemize

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

## 2.3 Numbered Type Itemize

- 1. Explore the image.
- 2. Explore the text.
- 3. Expore 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 Expore the video.
- D Explore the sound.
- E Create the multimodal data.

## 2.5 Roman Numbered Type Itemize (Lowercase)

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

#### 2.6 Roman Numbered Type Itemize (Uppercase)

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

## 2.7 Reducing Space between Items

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

#### 2.8 Reducing Space between Items and Provide Special Item Label

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

#### 2.9 Reducing Space between Items and Provide Romanized Item Label

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

## 2.10 Reducing Space between Items and Provide Numeric Item Label

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

#### 2.11 Adding Specific Character with Each Numeric Item Label

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

#### 2.12 Numeric Item Label with Bracket

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

#### 2.13 Numeric Item Label with Dot

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

#### 2.14 Alphabetic Item Label with dot

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

#### 2.15 Alphabetic Item Label with dot

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

## 2.16 Romanized Item Label with dot

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

#### 2.17 Romanized Item Label with dot

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

## 3 Mathematical Equation and Expression

$$e_t = h_t w_a \tag{1}$$

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

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

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

$$\text{Combined Span} = Span[index[1]] \cup Span[index[1]] \cup Span[index[1]]$$

$$R_j$$
: if  $x_1$  is  $A_{j1}$  and/or ......  $x_n$  is  $A_{jn}$   
then  $Class = C_j$ ,  $j = 1, ....., N$ 

#### 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

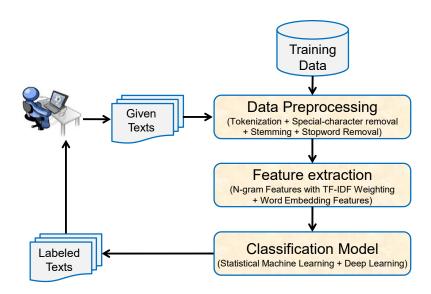


Figure 1: Proposed framework.





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

## 5 Table

Now, we illustrate the different types of tables. See the long table illustration from here https://www.overleaf.com/latex/examples/a-longtable-example/xxwzfxkxxjmc. Other types of tables are illustrated below:

Table 1: A sample table.

<u> </u>					
Col2	Col3	Col4			
6	87837	_			
7	78	5415			
545	778	7507			
545	18744	7560			
	6 7 545	6 87837 7 78 545 778			

Team Name	F1-Score		
HITSZ-HLT9 (1st)	0.7083028253		
hitmi&t (3rd)	0.6984762534		
IITKDetox (9th)	0.6895352367		
CSECUDSG (21st)	0.6795264755		
mnfourka (45th)	0.6581458018		
ST_TSResearch (64th)	0.6133591537		

Table 2: Comparative performance analysis.

Table 3: Comparative performance analysis against the state-of-the-art.

	Any-Type (Micro Avg.)					
Methods	Precision	Recall	F1 Score	Accuracy		
Proposed Method	0.4504	1.0000	0.6210	0.4504		
Top 5 Performing Teams in TRECIS-2018						
cbnuS2	0.4559	0.7780	0.5749	0.4213		
KDEIS4_DM	0.3914	0.9856	0.5603	0.3908		
umdhcilfasttext	0.4534	0.7260	0.5582	0.4022		
Participant Median	0.3978	0.6165	0.4775	0.3385		

## 6 Pseudocode/Algorithm Inclusion

```
Input: Input:
Output: Output:
Result: Write here the result
initialization;
while While condition do

instructions;
if condition then
instructions1;
instructions2;
else
instructions3;
end
end
```

```
\begin{array}{l} i \leftarrow 10 \\ \textbf{if } i \geq 5 \textbf{ then} \\ i \leftarrow i-1 \\ \textbf{else} \\ \textbf{if } i \leq 3 \textbf{ then} \\ i \leftarrow i+2 \\ \textbf{end if} \\ \textbf{end if} \end{array}
```

## 7 External PDF Pages Inclusion

### 8 Footnote and Citation/References

Some sample texts to illustrate the use of footnote<sup>1</sup>. Also we can use the url reference as footnote<sup>2</sup>.

To add a reference of a research paper, we need to collect bibtex from google scholar and put this bibtex in the \*.bib file. Then, we can add the reference as follows: (Moniz and Krueger, 2017) (Kopka and Daly, 1995).

#### 9 Miscellaneous

we publicly release the dataset for future research purposes at the following link: https://git.io/JkW6V or use the expanded  $URL^3$ 

#### 10 Illustration of Section

#### **10.1** This is Subsection:

#### **10.1.1** This is Subsubsection:

#### 11 Domain Specific Template Manipulation

IEEE Template https://www.ieee.org/conferences/publishing/templates.html.

<sup>&</sup>lt;sup>1</sup>Footnte sometimes used as a provider of additional information

<sup>&</sup>lt;sup>2</sup>https://github.com/nowshedcu/Personality-Traits-Detection-in-Bangla

<sup>&</sup>lt;sup>3</sup>https://github.com/nowshedcu/Personality-Traits-Detection-in-Bangla

# References

H Kopka and PW Daly. 1995. A guide to  ${\LaTeX}$ -document.

Joel Ruben Antony Moniz and David Krueger. 2017. Nested lstms. In *Asian Conference on Machine Learning (ACML)*, pages 530–544. Springer.