My First Latex Document

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This is the main text
This is my first document prepared in latex

1 This is a section

1.1 This is a subsection

1.1.1 This is a subsubsection

This is a section *

2 Fonts

In the LaTeX document, the section headings were formatted with **bold**, *italics*, and an <u>underline</u> to enhance readability and emphasis.

3 List

3.1 Unordered List

- Data Science
- Data Analysis
- Latex

3.2 Ordered List

1. Stochastic Process
2. Time Series
3. Sample Survey

4 Adding math to latex

4.1 Inline math

Consider the polynomial equation $f(x) = 3x^3 - 2x^2 + 5x - 7$ This polynomial represent a cubic function

4.2 Display math

Consider the polynomial equation

$$f(x) = 3x^3 - 2x^2 + 5x - 7$$

This polynomial represent a cubic function

4.3 More complex math

Subscripts in math mode are written as a_b and superscripts are written as a^b. These can be combined and nested to write expressions such as

$$T_{j_1 j_2 \ldots i_p}^{i_1 i_2 \ldots i_p} = T(x^{i_1}, \ldots, x^{i_p}, e_{j_1}, \ldots, e_{j_p})$$