**SOFTWARE REQUIREMENTS**

**1. Software Requirements**

**1.1. Operating System**

* Windows Server for organizations with a Windows-centric infrastructure.

**1.2. Web Server**

* A web server software to host the application's frontend and provide access to users via web browsers.

**1.3. Programming Languages and Frameworks**

* Python: For implementing data preprocessing, machine learning models, and backend logic.

**1.4. Machine Learning Libraries**

* Python libraries such as scikit-learn for implementing machine learning algorithms, natural language processing (NLP), and text analysis.

**1.5. Development Tools**

* Integrated Development Environments (IDEs) like PyCharm or Visual Studio Code for writing, testing, and debugging code.
* Version control systems like Git for managing code changes and collaboration among developers.

**1.6. Additional Tools and Utilities**

* Data visualization libraries like Matplotlib, Seaborn, or Plotly for creating visualizations.
* Text processing libraries like NLTK for natural language processing tasks.