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| **Project Work – Phase II (GR20A4130) – Project Pulse**  **B. Tech., CSE (AI & ML) IV Year II Semester Academic Year 2023 – 2024** | | |
| **Project Title** | **Enhanced Automated Word Formatter** | |
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| **Objectives of the Project:**   * **To Implement a python-based word formatting tool which automates manual editing to save time and effort.** * **Applying a pre-defined style to the categorized elements through manipulation of the Document Tree Structure**. | | **Abstract:** Researches face a lot of problem while documenting their Manuscripts. In absence of proper formatting, the research paper may get rejected, even if it has quality content. The aim of project is to create an application to streamline the process of transforming documents into various recognized academic or professional styles, ensuring consistency and precision. The proposed application is useful for a wide range of use cases, from Research papers to Academic Thesis, which effortlessly manages titles, headings, text, tables, figures, equations and also presents the content in an organized and professional manner. Additionally, it automates the handling of Citations and References, significantly enhancing the document preparation efficiently across various formatting standards. The proposed application is constructed by modifying the nodes of the document tree structure. With this versatile application, valuable time and effort can be saved while  ensuring the documents adhere to the highest standards of formatting. |
| **Uniqueness of the Project:**   * **Utilization of advanced algorithms and manipulation of the Document Tree Structure to automate the formatting process.** | |
| **Architecture Diagram**  A diagram of a data extraction  Description automatically generated |
| **Dataset Details:**   * **A Custom dataset created to classify heading and non-heading by using the word length and number of words as parameters** | |

**Project Content’s Google Drive Link:**

* **https://drive.google.com/drive/folders/1\_u3P9sen75PGLjA-eQ1baVtZojSviyJn?usp=sharing**

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| **Domain** | **Smart Automation** | | |  |
| **Title** | **Enhanced Automated Word Formatter** | | |  |
| **Team No.** | **A6** | **Guide Name: Dr. M. Kiran Kumar** | |  |
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**Experimental Results:**

* **Formatting process involves element identification, application of predefined styles, and automatic download of formatted document, enhancing user experience.**
* **Landing page designed with a user-centric approach featuring core offerings, feedback form, and streamlined upload/download options**
* **User engagement starts with clear interface, enabling document upload and processing through a systematic approach.**