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| **Project Title** | AI Plagiarism Detector Tool |
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| **Group Members** |  |
| Sewwandi BTI | EG/2020/4210 ( Frontend developer ) |
| Balasooriya JM | EG/2021/4424 ( UI/UX Designer ) |
| Bandara KMTON | EG/2021/4432 ( Mobile APP Developer ) |
| Bandara LRTD | EG/2021/4433 ( Backend Developer,Project Manager ) |
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| **Contact Person** | Dr. Kushan Sudheera (kushan@eie.ruh.ac.lk) |
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| **Desired Number of Group Members** | : 4 |
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| **Description** |  |
| The AI Plagiarism Detector Tool aims to develop a system that uses advanced machine learning techniques to identify and prevent plagiarism and detect AI-generated content in student assignments. The tool will serve educational institutions by ensuring the originality and authenticity of submitted work.  **Functional Requirements**  1.Plagiarism Detection: Check for plagiarism on one or two-page papers. (Expand if feasible)  Use departmental assignment submission examples to test. Create algorithms for comparing and evaluating text similarities.  Modify any pre-built models as needed. To successfully compare, use techniques such as cosine similarity, word embedding (Word2Vec, GloVe), perplexity, and burstiness.  2.AI-Generated Content Detection:   Create techniques to identify AI-generated assignments.  Use proper measuring techniques to identify AI-generated text. Use a publicly accessible large language model (LLM) for this purpose if necessary.  3.Submission Portal Development:   Develop a user-friendly platform for students to upload documents.  Offer fast feedback on plagiarism and AI-generated content scores. Ensure the site displays both results for students following submission.  4.Report Generation:  Create separate papers for AI and plagiarism detections. Ensure documents are downloadable for students and instructors.  5. Database Integration: Create a database to hold all scores and related data. Optimize information retrieval and management. This is our project, and our primary functions are assignment to assignment similarity score and assignment to internet similarity score. Please advise me on how to complete that project and provide me with all necessary procedures, as well as this platform similar to Turnity. | |