**First year Mini-Project SYNOPSIS**

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| DEPARTMENT | Computer Science and Engineering | | | |
| TITLE OF THE PROJECT | ClassSnap | | | |
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| PROJECT TIMELINE  (Tentative Start date- End Date) | June 2023 to Sept 2023 | | | |
| PROJECT GUIDE | Dr. Kavitha K S  Professor, Dept. of CSE, DSCE | | | |
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| PROJECT - Domain | Student details management system | | | |
| Introduction | A comprehensive software project aimed at streamlining the management of student details with lecture summary integration.  It integrates student information with sophisticated Machine Learning technology to provide students with automated summaries of notes.  The project will be developed as a web-based application to cater to educational institutions seeking to streamline administrative tasks, improve student engagement, and optimize knowledge retention. | | | |
| Application/s | 1. Note Generation and Summarization: ClassSnap utilizes Machine Learning to intelligently summarize presentation materials from online classes, saving students time and effort in manual note-taking and providing organized notes for easy review. 2. Student details management system: In addition to its note generation capabilities, it doubles as an online portal for student information. Each student has a personalized dashboard that provides access to their personal details, along with their generated notes. | | | |
| PROJECT Problem STATEMENT | Traditional student information management systems often struggle to keep up with the increasing demand for streamlined administrative processes and personalized learning experiences.  In parallel, online learning platforms have become prevalent, offering extensive course materials and digital notes.  However, students often face challenges in efficiently processing and assimilating this much of information, leading to reduced learning effectiveness and academic performance. | | | |
| Proposed Solution | ClassSnap is an advanced web application designed to enhance student’s learning experience by providing personalized access to academic details and automatically generating comprehensive notes through intelligent presentation summarization. Leveraging cutting-edge technologies, the platform employs Machine Learning algorithms to perform intelligent summarization of presentations from online class sessions.  Through the use of Selenium Web Driver, ClassSnap automatically extracts relevant information from the meeting presentations and processes it with the Machine Learning algorithm to generate organized and concise notes, reducing manual effort for students.  The application seamlessly integrates with popular online learning platforms, ensuring effortless synchronization of academic data. | | | |
| PlaTform that will be used for implementation  (Name the hardware and Software tools and Development Environment  that you will be using for implementation) | HW: NIL | | | |
| Programming Language:  1.Pyhton  2.MERN-Javascript | | | |
| 1.Version control- GIT and GitHub  2.VSCode  3.PyCharm  4.Selenium Web Driver  5.Cloudinary | | | |
| References | [1] An overview of the supervised machine learning methods by Vladimir Nasteski  [2] Analysis and Design of Selenium WebDriver Automation Testing Framework by Rahul Joshi  [3] https://geeksforgeeks.org/  [4] A comparative study: MongoDB vs. MySQL Publisher: IEEE | | | |