

## **Transforming Video Learning with AI: A Step Toward Smarter Education**

In the modern digital age, video-based learning platforms like YouTube, SWAYAM, and Coursera are essential tools in education. However, these platforms provide a wealth of information but also encourage passive learning methods in which students watch videos but are not actively involved in the process. This results in low retention levels, understanding, and ultimately academic performance. To overcome this issue in education, the proposed AI-Powered Active Learning Platform seeks to transform passive video viewing into an active and personalized experience. It uses cutting-edge AI technology to develop video summaries, quizzes based on Bloom's Taxonomy, and organized learning content from videos. Additionally, it incorporates methods like chunking and spacing to assist in understanding and retention.

Another notable feature is that this platform has a personalized dashboard. This feature enables students to be monitored as they progress. This ensures that each student has a learning pace that suits them. The use of AI to assess students ensures that they are actively engaged rather than passively consuming material.

The impact that this innovation has on society is huge. This is because this innovation ensures that students, especially those who are rural or low-income, are exposed to quality learning. This is because they rely on free resources available on the internet. This ensures that students are well informed. This project, therefore, is a reflection of the global objective to encourage inclusive, fair, and lifelong learning for everyone.