

Title

Empowering Educators with Generative AI: Creating Interactive PowerPoint Slides Without Programming Experience

Background

In the rapidly evolving landscape of higher education, integrating technology into teaching practices is essential to meet the diverse needs of modern learners. Interactive content has proven to significantly enhance student engagement and comprehension, especially in complex subject areas. However, many academic lecturers lack the programming expertise required to develop such interactive materials. This initiative addresses this gap by presenting a framework that enables educators to create interactive PowerPoint slides using generative AI, eliminating the need for any programming experience.

The framework guides lecturers through recognizing their teaching needs, ideating content, iteratively prompting generative AI, and integrating the interactive elements into their presentations. The interactive content can include clickable buttons, infographics, user-uploaded images, and simple 2D animations. For instance, a mass-spring system animation with adjustable parameters via sliders, or a digital electronics Karnaugh map (K-map) solver that dynamically groups cells based on user-inputted truth tables.

Conclusion

By participating in this session, educators will be able to harness the power of AI to enhance their teaching materials, ultimately contributing to more engaging and effective learning experiences for students. The session not only provides the tools and knowledge but also inspires a shift towards embracing innovative technologies in higher education.