My Journey in Crafting the Syllabus Optimizer AI for Educators 🚀

As a student, diving into the world of AI with the **Syllabus Optimizer AI** project has been an incredibly rewarding experience. My goal from the outset was to build a tool that genuinely addresses a real-world need for educators, and seeing this vision come to life has been truly exciting.

The core idea was to create an intelligent assistant that could significantly ease the burden of curriculum design and updates. Leveraging **IBM Watsonx AI Studio** and the **Granite model**, alongside **Natural Language Processing (NLP)** and **Retrieval Augmented Generation (RAG)**, I developed an AI that can analyze existing syllabi, research current trends across various search engines, and provide smart recommendations.

I envisioned a system that could automate tedious tasks like formatting, updating reading lists, and mapping learning outcomes. The thought of faculty, instructional designers, and curriculum committees saving valuable time and being empowered to create even more dynamic and relevant course content is what truly fueled this project. From generating draft syllabi in minutes to ensuring alignment with the latest academic and industry advancements, I believe this tool can foster greater efficiency, consistency, and innovation in our educational institutions.

This project has been a fantastic learning curve, pushing me to explore agentic AI and practical applications of large language models. I'm incredibly proud of what the Syllabus Optimizer AI can offer to educators, and I'm excited about its future potential to integrate personalized learning paths and AI-driven assessment generation, making education more adaptive and effective.

This project is avavilable in my github as well. Thank you

— Arnav Gupta, (**SRM UNIVERSITY DELHI-NCR**)