

AI Industry Applications Guide - Inspiration for Service-Learning

REAL-WORLD APPLICATIONS

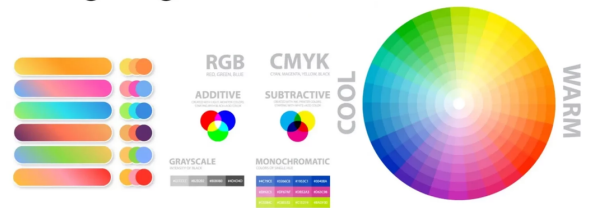
ACCESSIBILITY & INCLUSION

Industry Inspiration /

Community Needs Assessment

By leveraging AI, designers can now create products that automatically adapt to user needs, significantly broadening accessibility. This includes generating interfaces optimized for color vision deficiencies and customizing content readability in real-time, ensuring a more inclusive experience for all.

Accessibility in UX: _____ Designing for Color Blind Users.



Note. Image on Designing For Color Blind Users by Codimate

<https://codimate.ai/blog/accessibility-in-ux-designing-for-color-blind-users/>

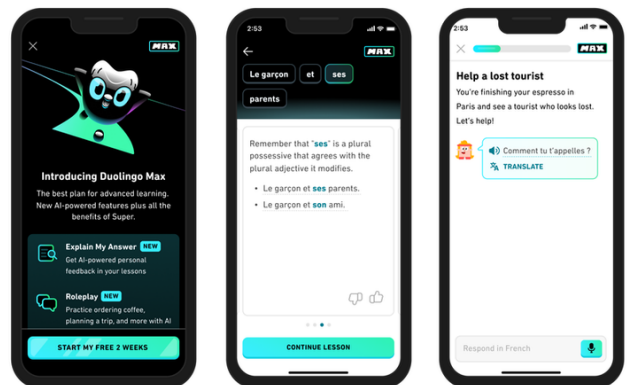
Course / Service-Learning Adaptation

Create accessible community resources that adapt to different needs and abilities

PERSONALIZED EDUCATION

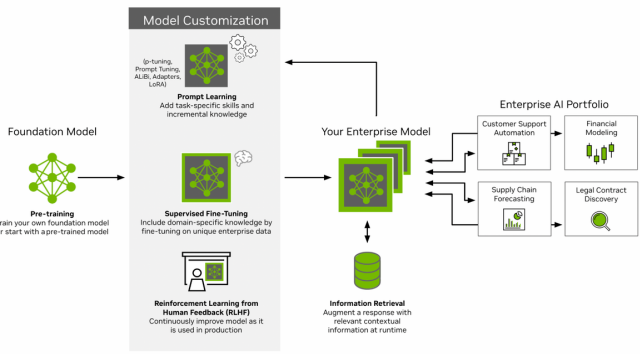
Industry Example

The influence of AI extends to education, where it is revolutionizing the learning landscape through personalization. A prime example is Duolingo's "Duolingo Max," a tier powered by OpenAI's GPT-4 that generates adaptive, one-on-one tutoring interactions for users.



Note. Image on Dulingo Max by Duolingo

<https://blog.duolingo.com/duolingo-max/>

Course / Service-Learning Adaptation	Create accessible community resources that adapt to different needs and abilities
HEALTHCARE INNOVATION	
Industry Example	The impact of AI is equally transformative in healthcare, where it provides powerful tools for improved diagnosis, tailored treatment options, and sophisticated predictive analysis. This technology is already demonstrating its value by streamlining drug development, broadening healthcare access via remote care solutions, and creating new pathways to enhance patient health and longevity.  Note. A lifecycle of a generative AI application powered by a customized foundation model and retrieval augmented generation by Nvidia https://developer.nvidia.com/blog/mastering-llm-techniques-llmops/
Course / Service-Learning Adaptation	Community wellness initiatives and health awareness tools

YOUR SERVICE-LEARNING APPLICATION WORKSHEET

Project Challenge:

Industry Inspiration:

AI Tools to Explore:

Potential Community Impact:

Ethical Considerations:

Reference:

1. IDEO U. Brainstorming with AI: AI x Design Thinking Workshop Series Workbook. IDEO, 2024.
2. Codimate. (n.d.). Image on designing for color blind users [Digital image]. Codimite. Retrieved October 22, 2024, from <https://codimite.ai/blog/accessibility-in-ux-designing-for-color-blind-users/>
3. Duolingo. (n.d.). *Duolingo Max: A new learning experience powered by GPT-4* [Press release]. Duolingo Blog. Retrieved October 22, 2024, from <https://blog.duolingo.com/duolingo-max/>
4. NVIDIA. (n.d.). Mastering LLM techniques: LLMOps, RAG, and more [Blog post]. NVIDIA Developer Blog. Retrieved October 22, 2024, from <https://developer.nvidia.com/blog/mastering-llm-techniques-llmops/>

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