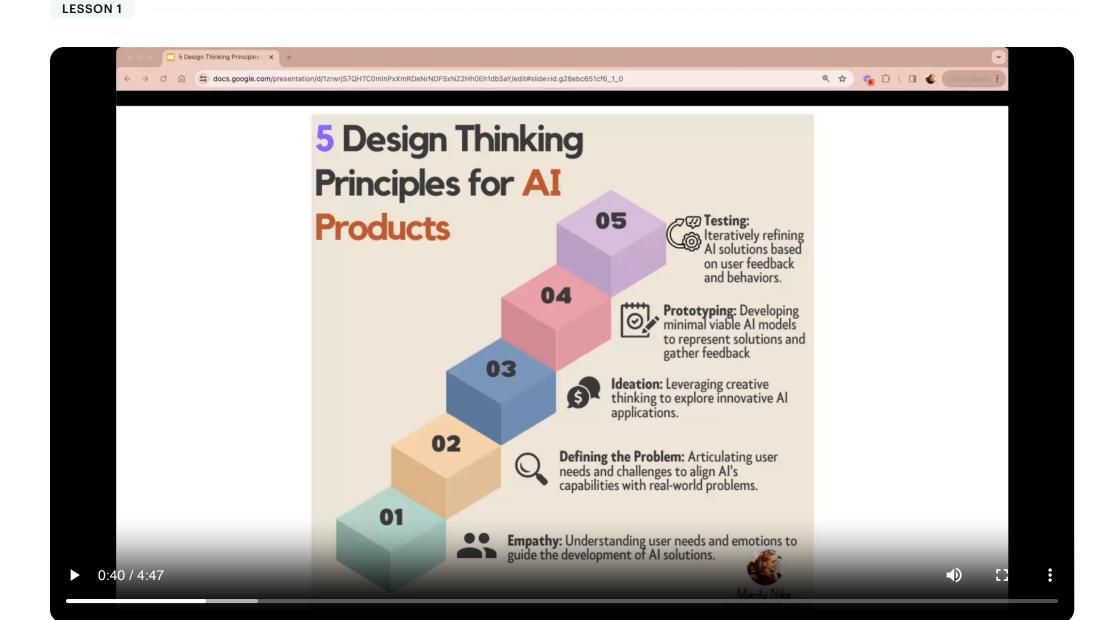
Stages of Design Thinking in AI

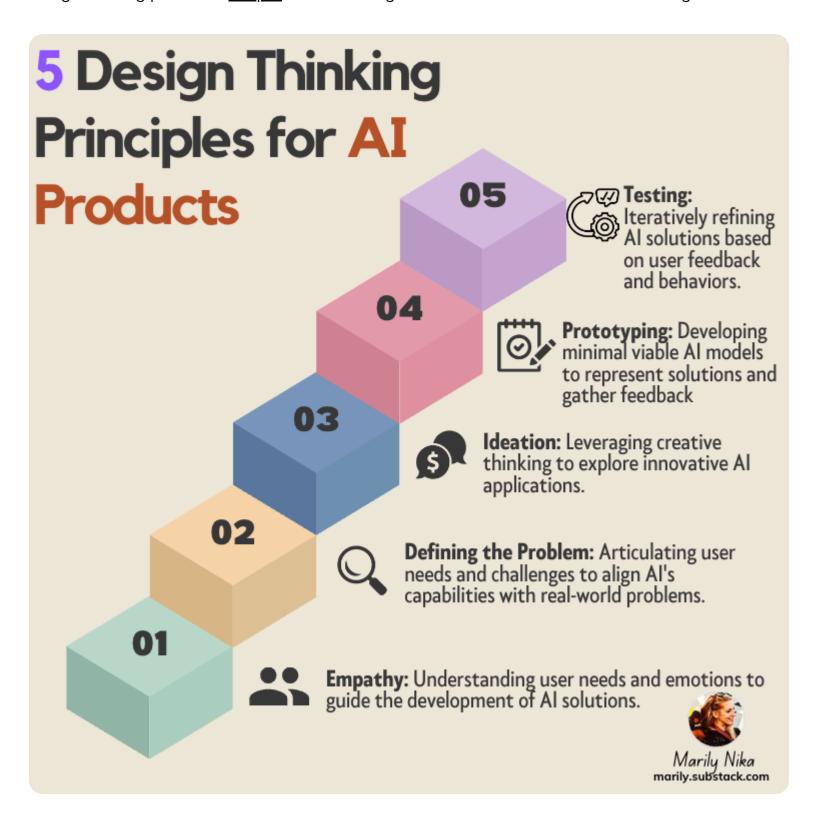


Al is transforming our industries. As Al becomes more ubiquitous, there is a growing need to intentionally design Al systems that are human-centric, transparent, and inclusive. As part of this module I'd like to explore how design thinking—a human-centered, iterative approach to problem-solving—can be applied when developing Al applications, ensuring they align with ethical principles and societal values.

I keep saying that AI is not a product. This is exactly why AI / ML Scientists should embrace design thinking's human-centered ethos early when conceptualizing systems. Design thinking provides a framework to continually re-examine AI applications regarding **inclusivity**, **accountability**, and **respect** for human dignity.

Principles of Design Thinking in AI

Design thinking prioritizes <u>deeper</u> understanding of users and their needs when creating solutions. It involves five key phases:



- **Empathy**: Understanding user needs and emotions to guide the development of AI solutions.
- **Defining the Problem**: Articulating user needs and challenges to align Al's capabilities with real-world problems.
- Ideation: Leveraging creative thinking to explore innovative AI applications.
- **Prototyping**: Developing minimal viable AI models to represent solutions and gather feedback.
- **Testing**: Iteratively refining AI solutions based on user feedback and behaviors.

