

# Training AI with a Foundation Model: **What's Different?**



Foundation models are a new class of AI trained on massive, diverse datasets, enabling rapid fine-tuning for a wide range of clinical use cases and tasks with minimal additional training. Unlike traditional AI models built for a single purpose, foundation models are designed for versatility, scalability and adaptability across multiple pathologies and use cases.



## Foundation Models vs. Traditional AI



### Training Data

- **Foundation Models:** Learn from massive, unlabeled, and multimodal datasets, enabling broad pattern recognition without manual annotation.
- **Traditional AI:** Depend on manually labeled, task-specific datasets, limiting flexibility and reuse.



### Speed of Development

- **Foundation Models:** Can be fine-tuned for new use cases in weeks, thanks to pretraining on diverse data.
- **Traditional AI:** Each model must be built from scratch, often taking years to develop.



### Scalability

- **Foundation Models:** Support multiple applications from a single model, enabling cross-department deployment with minimal rework.
- **Traditional AI:** Built for one task at a time—scaling means stacking disconnected solutions.



### Multidimensional Capability

- **Foundation Models:** Natively process and integrate insights across data types (e.g., images, text), enabling richer clinical decision support.
- **Traditional AI:** Limited to single-modality tasks, reducing value in complex or cross-functional workflows.

Learn more about how a foundation model powered by an AI platform is transforming healthcare at [www.aidoc.com](http://www.aidoc.com).