

Scorcher: Democratizing AI/ML for Precision Oncology

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The Problem

AI/ML in oncology is fragmented, slowing discovery and limiting how quickly innovations reach patient

The Solution

- A shared consortium approach to AI/ML development, documentation, and dissemination
 - Address barriers with open-source software, training resources, and community support
 - Make AI/ML easier to use, well-documented, and connected to programming languages people use

The Plan

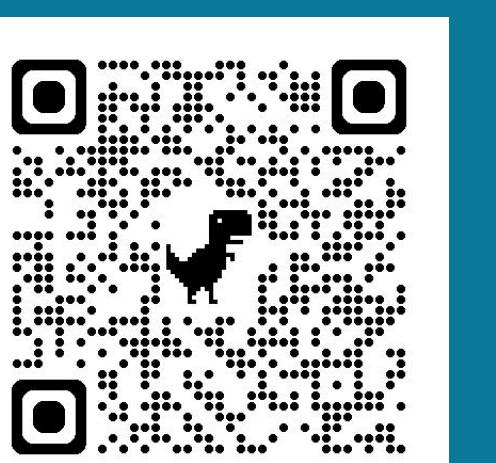
- Unite a team of operational leaders, clinical investigators, and education experts for a pilot
 - Iteratively refine scorcher based on feedback and an institutional needs assessment
 - Scale its impact by developing a workshop, short course, and online community
 - Empower researchers to integrate into their workflow
 - Establish infrastructure and culture needed to drive innovation in precision oncology

Scorcher lets you develop models in plain, sequential steps, focusing on what the model should do, not how to write code for it

Plain Language:

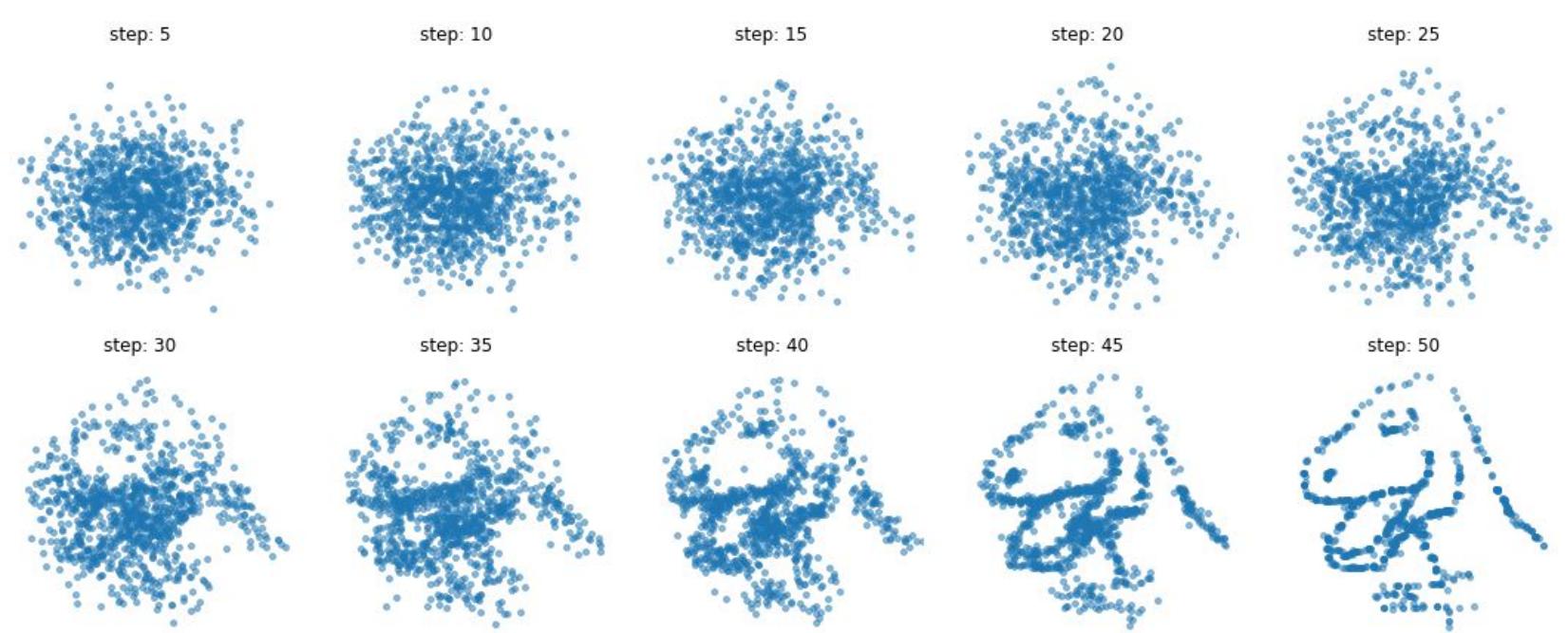


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An Example Task

Generate a dinosaur image from noise (example of a diffusion model)



Python

Scorcher

Scorcher
reproduces
Python’s
model with
roughly

**85% less
code!**

Dependencies

Architecture

Compilation

Training

Evaluation

2025 Sloan Precision Oncology Technology Dissemination Award Recipient