

# Pediatric Malnutrition Detection Clinical AI



## Business Need & Use Case Overview

Malnutrition can often be misdiagnosed for other conditions. Phoenix Children's Hospital is using the DataRobot AI Platform to identify patients with undiagnosed malnutrition. By utilizing a dataset from a decade of hospital data and modeling, they can now identify at-risk children, leading to new malnutrition diagnoses each week. This closed-loop augmented AI system not only flags patients for clinical review but also updates their medical records with malnutrition diagnosis codes, significantly impacting long-term healthcare outcomes.

## Ethical/Regulatory Considerations

Not disclosed

## Archetype

Taker

## AI Technique(s) Used

Generative AI

## Core System(s) Used

N/A

## Digital Solution(s) Used

DataRobot

## Implementation Stage

Implementing

## Assessments\*

Risk	Complexity	Financial Impact
3/5	3.5/5	\$\$

## Challenges/Lessons Learned

Not disclosed

## Initial Outcomes

- Discovering 4-5 children at risk of malnutrition each week

Source: Leveraging machine learning to rapidly create clinical AI algorithms | Innovate Healthcare