



# The Healthcare AI Learning Roadmap

6 STEPS TO BREAK INTO HEALTH AI  
THE RIGHT WAY.



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# Programming & Data Foundations

## **Goal:**

Speak Python. Understand data.

## **Top Resources:**

- CS50: Python – Harvard
- Data Scientist Track – DataCamp
- Statistics & Probability – Khan Academy
- Python for Data Science – IBM
- Intro to Data Analysis – Udacity



# Machine Learning Core

## **Goal:**

Learn how models think.

## **Top Resources:**

- ML by Andrew Ng – Stanford
- Applied ML in Python – UMich
- Practical Deep Learning – fast.ai
- ML with Python – IBM
- Intro to ML – Kaggle



# Deep Learning & Imaging

## **Goal:**

Work with scans. Build with CNNs.

## **Top Resources:**

- AI for Medical Diagnosis – DeepLearning.AI
- CS231n – Stanford
- Deep Learning in Imaging – U.Edinburgh
- MONAI Academy
- DICOM Processing – Udemy



# Clinical Data & Workflows

## **Goal:**

Understand healthcare's language.

## **Top Resources:**

- Global Health Informatics – MIT
- Health Informatics – Johns Hopkins
- FHIR Primer – Udemy
- SNOMED CT Essentials
- Google Cloud Healthcare Interop Lab



# Applied AI & Clinical NLP

## **Goal:**

Make real-world AI for doctors.

## **Top Resources:**

- AI for Medicine – DeepLearning.AI
- NLP with Classification – DeepLearning.AI
- ClinicalBERT – HuggingFace
- Interpretable ML – Molnar
- Stanford AIMI Lectures



# Deployment & Ethics

## **Goal:**

Ship responsibly. Scale safely.

## **Top Resources:**

- Practical MLOps – O'Reilly
- Streamlit + FastAPI – YouTube
- MLOps Specialization – DeepLearning.AI
- Stanford HAI Ethics
- FDA SaMD AI Guidance

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