

# Big Data in Healthcare | by 8400

The **Big Data in Healthcare** course by 8400 provides a comprehensive understanding of AI terminology and data science processes along with hands-on application in real-world healthcare use cases. The program was specifically designed for healthcare professionals who wish to expand their knowledge and understanding of AI processes and methodologies.

Artificial intelligence (AI) and machine learning (ML) have been revolutionizing the health industry in the past few years and are projected to grow 44% by 2026. The specific knowledge required to utilize AI and advanced data science technologies in healthcare is currently not sufficiently accessible.

The course targets healthcare professionals, including clinicians, researchers, medical residents, life sciences and medical students, who aim to implement AI based solutions in their practice.

## COURSE FORMAT

The course will be conducted in a hybrid model, including both in-person evening sessions as well as short, pre-recorded learning modules, allowing participants to study anywhere, at their own pace. The course sessions will be led by senior clinicians, researchers and tech leaders, who will share their vast knowledge and expertise with the class through real-life use cases.

**All sessions will be held in Hebrew**

Syllabus		Speakers	Date	Location
<b>Introduction to Big Data analysis in medicine</b>		<b>Dr. Orna Berry</b> <b>Prof. Ran Balicer</b> <b>Dr. Michal Rosen-Zvi</b>	February 20th 2022, 4 pm	*Yaglom Hall, Tel Aviv University
A	<b>How to ask the right question when approaching Big Data?</b>	Approaches to big data in healthcare	Self-paced online learning	
		AI in the clinic – when can we use it?		
		How to process medical data?		
		Responsible AI		
<b>Midcourse session - discussing use cases in Big Data analysis</b>		<b>Prof. Shay Ben-Shachar</b> <b>Prof. Noam Shomron</b> <b>Dr. Gidi Stein</b>	April 10th 2022, 6 pm	Zoom
B	<b>Technical aspects of Big Data analysis using AI and ML in medicine</b>	From BI to AI – the data analytics evolution in the enterprise	Self-paced online learning	
		Understanding machine learning algorithms - real-world applications of AI for diagnostic purposes		
		EDA (exploratory data analysis) – the case of clinical data sets		
		Interpretability and observability in AI and ML: benefits and challenges		
C	<b>Big Data analysis in real life – R&amp;D and clinical use of models</b>	<b>Prof. Ran Balicer</b> <b>Dr. Shira Greenfeld</b> <b>Dr. Noa Dagan</b> <b>Dr. Michal Rosen-Zvi</b> <b>Prof. Robert Klempfner</b> <b>Dr. Kira Radinsky</b>		
<b>Final session: facilitated hands-on application</b>		<b>Prof. Shay Ben Shachar</b> <b>Prof. Noam Shomron</b>	June 16th, 2022, 6 pm	*AWS Amazon offices

\*Agenda is subject to change

Places are limited | Full attendance in all live meetings, as well as completion of all online modules and assignments is required | Lectures will be given in Hebrew | Deadline for applications is February 6th, 2022

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\*Frontal meetings are subject to COVID-19 restrictions and guidelines

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