

# Big Data

## in Healthcare | by 8400

The course co-organized by 8400 provides a **comprehensive understanding of Artificial Intelligence (AI)** terminology and data science processes along with some hands-on application in real-world healthcare case studies.

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

The course format 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 case studies.

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.

Syllabus		Speakers	Date	Format	
<b>Introduction to Big Data analysis in medicine</b>		<b>Prof. Michal Rosen-Zvi (IBM)</b> <b>Dr. Erez Naaman (Scopio)</b> <b>Prof. Osnat Ashur-Fabian</b>	April 16th, 2023 16:00-19:00	In-person session *Tel Aviv	
A	<b>How to ask the right question when approaching Big Data?</b>	<b>Prof. Michal Rosen-Zvi</b> <b>Prof. Shay Ben Shachar</b> <b>Dr. Tuvik Beker</b> <b>Dr. Alexis Mitelpunkt</b> <b>Dr. Daniel Souroujon</b> <b>Mr. Eran Rubens</b> <b>Mr. Eran Atlas</b> <b>Mr. Gal Salomon</b> <b>Ms. Hadas Bitran</b> <b>Dr. Dan Yamin</b>	Self-paced online learning		
	Approaches to big data in healthcare				
	AI in the clinic – when can we use it?				
	How to process medical data?				
<b>Midcourse session - discussing case studies in Big Data analysis</b>		<b>Prof. Shay Ben-Shachar</b> <b>Prof. Noam Shomron</b> <b>Dr. Gidi Stein</b> <b>Dr. Alexis Mitelpunkt</b>	May 21st, 2023 16:00-19:00	In-person session *Tel Aviv	
B	<b>Technical aspects of Big Data analysis using AI and ML in medicine</b>	<b>Dr. Elan Sasson</b>	Self-paced online learning		
					From BI to AI – the data analytics evolution in the enterprise
					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. Noa Dagan</b> <b>Prof. Michal Rosen-Zvi</b> <b>Prof. Robert Klempfner</b>			
D	<b>AI in Healthcare – Israeli regulatory approach</b>	<b>Dr. Anat Boehm-Cagan and Ran Milman- Ministry of Health</b>			
<b>Final session: facilitated hands-on application</b>		<b>Prof. Shay Ben Shachar</b> <b>Prof. Noam Shomron</b> <b>Hadas Volkov</b>	July 2nd, 2023 16:00-19:00	In-person session *Tel Aviv	

\*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 March 13th, 2023 | Participation fee: 600 NIS.

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\*In-person meetings' location will be announced to the participants.



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