Big Data
in Healthcare | by 8400

The course co-organized by 8400 provides a **comprehensive understanding of Artificial Intellegence** (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.

For more information:
edu@8400thn.org

Syllabus			Speakers	Date	Format
Introduction to Big Data analysis in medicine			**Prof. Michal Rosen-Zvi (IBM)** **Dr. Erez Naaman (Scopio)** **Prof. Osnat Ashur-Fabian**	Dec 24th, 2023 16:00-19:00	In-person session *Tel Aviv
A	**How to ask the right question when approaching Big Data?**	Approaches to big data in healthcare	**Prof. Shay Ben Shachar** **Dr. Ofer Chen** **Dr. Itay Pessach** **Mr. Eran Atlas** **Dr. Tuvik Beker** **Dr. Alexis Mitelpunkt** **Ms. Ayala Neudorfer** **Dr. Michal Rosen Zvi** **Dr Daniel Souroujun** **Mr. Eran Rubens** **Ms. Hadas Bitran**	Self-paced online learning	
		AI in the clinic – when can we use it?			
		How to process medical data?			
Midcourse session - facilitated hands-on application				Jan 28th, 2024 16:00-19:00	In-person session *Tel Aviv
B	**Technical aspects of Big Data analysis using AI and ML in medicine**	From BI to AI – the data analytics evolution in the enterprise	**Dr. Elan Sasson**	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	**Big Data analysis in real life – R&D and clinical use of models**		**Dr. Shira Greenfeld** **Prof. Ran Balicer** **Prof. Noam Shomron** **Dr. Michal Rosen Zvi** **Dr. David Golan** **Ms. Hadas Bitran** **Dr. Noa Dagan** **Prof. Robert Klempfner** **Dr. Dan Yamin** **Mr. Itzhar Laufr** **Dr. Kira Radinsky**		
D	**AI in Healthcare – Israeli regulatory approach**		**Dr. Anat Boehm-Cagan and Ran Milman- Ministry of Health**		
Final session: facilitated hands-on application		Group work: implementation of acquired tools on real-life clinical data		March 3rd, 2024 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 October 20th, 2023 | Participation fee: 700 NIS.

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

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