

AI4HEALTH.CRO

Workshops

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WORKSHOP TITLE	WORKSHOP PROVIDER	DATE	TIME	LOCATION /HYBRID/ONLINE	WORKSHOP SUMMARY
Introduction to Data Science for Clinicians	RBI	13.10.	10-12h	ZICER - Hibridno	This course covers the basics of data science and introduces concepts that emphasize the role of multidisciplinary collaboration and effective communication between experts from different domains. Topics covered include research problem definition, data acquisition, exploration, modeling, and visualization, with a focus on real-life clinical examples, privacy, and their ethical implications.
Introduction to AI in Healthcare	RBI	13.10.	13-15h	ZICER - Hibridno	<p>Explore the fundamental concepts of AI and its role in supporting medical staff and healthcare practitioners. Examine real-world case studies that showcase successful AI implementations. Engage in discussions on how data can help alleviate administrative burdens, enhance patient care, drive scientific research, and reduce waiting lists.</p> <p>General topics in AI in healthcare include:</p> <ul style="list-style-type: none"> • AI's role and impact in healthcare • Breakthroughs in machine learning • Supervised, unsupervised, and reinforcement learning • Federated data and safety • Understanding causality in medical data • Ensuring explainability (paradigms: user, doctor, developer) • Industry interests in AI and healthcare • Tangible benefits of AI in diagnostics and treatment • Exploring future trends • Examples and use cases: solving healthcare challenges with AI

Introduction to Machine Learning and Deep Learning	RBI	14.10.	9 -11h	Online	<p>In this workshop, we will introduce Machine Learning (ML) and Deep Learning (DL) for healthcare practitioners. Participants will gain an overview of both basic and state-of-the-art ML and DL methods applicable to various types of data, including text, tables, time series, and medical imaging. The workshop will emphasize the importance of explainability, handling uncertainty in predictions, and evaluating ML and DL methods within the context of clinical practice. Future trends will be discussed to encourage conversations about the potential benefits of applying ML and DL systems in healthcare. The program will be complemented by hands-on problem-solving exercises.</p>
Evaluation of Machine Learning Models in Medicine	RBI	14.10.	11:30-13:30h	Online	<p>This course addresses the critical process of assessing the performance and reliability of ML models in medical applications. It provides an overview of evaluation metrics, outlining their advantages and limitations, and emphasizes that no single metric can capture all relevant characteristics of ML models. The course highlights the importance of combining different evaluation metrics and selecting the appropriate ones for specific cases. It also addresses the role of data quality and data manipulation approaches in achieving reliable and comprehensive model evaluation. For the successful application of AI systems in healthcare, each phase of AI integration must be thoroughly evaluated. This course focuses on the ML model development phase, while clinical study evaluation and implementation evaluation are not covered.</p>
Trustworthy AI for Medical Applications	RBI	14.10.	14:00-16:00h	Online	<p>This course provides an overview of the key aspects of trustworthy AI in medical contexts. Artificial intelligence systems have well-known drawbacks, such as the risk of bias, lack of interpretability, and decision-making based on spurious correlations. Healthcare is a high-stakes domain where errors are either intolerable or extremely costly; therefore, AI applications in this field must be trustworthy. Ensuring that AI systems are reliable, transparent, and aligned with ethical principles is essential to foster acceptance among healthcare professionals, patients, and regulatory bodies. The main topics of the presentations and hands-on materials focus on reliability, transparency, privacy, fairness, accountability, and robustness of AI systems in healthcare, emphasizing the importance of developing reliable AI systems and ensuring their responsible use.</p>

Bioinformatics for Translational Medicine	RBI	15.10.	9-11h	ZICER - Hibridno	This course introduces bioinformatics for translational medicine, focusing on how the latest bioinformatics discoveries can be applied to address unmet healthcare needs. Topics include genomics, high-throughput omics data analysis, precision medicine, predictive modeling and risk assessment, drug discovery, clinical trial design analysis, and translational research platforms. Hands-on sessions will incorporate advanced bioinformatics tools and real-world case studies to provide deeper insight into the dynamic field of translational medicine.
How (not) to use Language Models in Medicine	RBI	15.10.	13-15h	ZICER - Hibridno	This course offers a basic introduction to large language models (LLMs) and their applications. It combines a theoretical overview with a practical, interactive demonstration of how LLMs can be used for specific medical tasks. Large language models are powerful new AI technology that enables a wide range of applications in text transformation and generation. The course aims to provide an intuitive understanding of the architecture of LLMs, their training and operation, as well as approaches to evaluation and validation in the context of specific tasks. Participants will also gain an overview of potential applications of this technology in medicine, challenges related to the operation of LLMs, and regulatory considerations for their use in practice. The second part of the course focuses on hands-on, interactive demonstrations with a specialized LLM in a local environment, applied to different medical tasks.
e-Health Cybersecurity and Asset Protection for Start-ups	MIZ	16.10.	14- 16h	Online	This course/webinar aims to provide the basics of cybersecurity and asset protection for start-ups operating in the health, medicine, life sciences, or pharmaceutical sectors. Security vulnerabilities, threats, and risks exist in digital solutions using various technologies—from web and mobile applications to the Internet of Things and Artificial Intelligence—and must be properly managed to ensure protection and maintain resilience.
Business Development	ZICER	17.10.	12-13h	Online	This business development education focuses on equipping participants with the skills to identify growth opportunities, build strategic partnerships, and enhance competitive advantage. The program incorporates practical exercises and case studies to provide real-world applications and actionable insights.

Marketing Strategy	ZICER	17.10.	14 -15h	Online	Education equips SMEs with essential skills to effectively reach and engage their target audiences. The curriculum covers digital marketing, branding, market analysis, and strategic planning. It enables participants to optimize their marketing efforts and drive sustainable growth.
Procurement for Innovation	MZ	27.10.	9- 10:30h	Online	Public procurement of innovation offers contracting authorities a unique opportunity to establish closer connections with the market and develop highly tailored services that are perfectly aligned with their needs. The training is designed for staff members working in public procurement departments, professionals engaged in the management of EU-funded projects, as well as start-ups and SMEs as market representatives. As a relatively new concept in public procurement - at least in the Croatian context - this training will present several case studies, including examples of good practice from other (mostly European) countries, as well as two Croatian cases. Participants will gain an understanding of what public procurement of innovative solutions involves, how it differs from traditional procurement, and what the process and its steps look like in practice. By the end of the training, they will be prepared to take part in innovation-oriented procurement processes that support the growth of small and medium-sized enterprises and start-ups, drive technological advancement, and enable a more effective response to public needs.
Project Management	MZ	27.10.	11:00-12:30	Online	Through practical examples and interactive workshops, participants will learn key techniques for planning, organizing, and controlling project implementation. Special emphasis is placed on administrative and financial project management, reporting, risk management, team communication, and the use of tools for tracking progress. Upon completion of the training, participants will be equipped to effectively manage projects and achieve goals within set deadlines and budgets.
Introduction to IT Solutions of Hospital Healthcare Institutions in the Republic of Croatia – Challenges for	IN2	27.10.	13-16h	ZICER - Hibridno	Croatia has one of the most developed eHealth systems among EU countries, connecting primary, secondary, and tertiary/specialized healthcare institutions within a single digital network. This national platform has been developed and maintained on the same architecture for over 20 years, overcoming various challenges. The complexity of processes and data has increased over time, expanding from primary care to subspecialty care, making hospital-level implementation a demanding task. This course will illustrate that journey through the experiences of Croatian hospitals, focusing

Building and Delivering New Values					on the implementation of hospital information systems and relevant elements of the national eHealth platform. All healthcare IT stakeholders in Croatia should be familiar with these insights before participating in future healthcare IT projects.
The Central Health Information System of the Republic of Croatia (CEZIH) with an emphasis on data that is exchanged and available for analytical processing	ENT	28.10.	9- 11h	Online	CEZIH is a complex national information system that implements selected functionalities such as the Patient Portal, Electronic Health Record (EHR), and National Prevention Programs. It also serves as a platform for integrating various point-of-care applications, supporting processes such as medication prescribing and dispensing, electronic referrals, specialist findings and discharge letters, and different types of reporting. Hundreds of millions of medical messages and documents are exchanged annually through CEZIH. Through this education, participants will become acquainted with the Central Health Information System of the Republic of Croatia (CEZIH). They will learn about its basic business architecture, key components, and the types of data exchanged and available for analytical processing.
Introduction to High-Performance Computing (HPC)	RBI	28.10.	11-13h	Online	This course introduces the main concepts, definitions, uses, and benefits of High-Performance Computing (HPC). It will demonstrate the basic use of HPC through real-world case studies and provide an up-to-date overview of major national and international computing resources (HPC/supercomputers), along with guidance on how to apply for access to these resources. The course will also present the main mechanisms for remote access to HPC systems.
AI Based Speech-to-Text System in Healthcare	NTA	28.10.	14-16h	Online	During this webinar, participants will learn about the workings of an AI-based speech-to-text system. The session will focus on real use cases, enabling participants not only to understand the technical details but also to explore the challenges of medical documentation in the healthcare sector and how these challenges can be addressed with a speech-to-text system implemented in Croatian hospitals. Additionally, the webinar will cover strategies for acquiring and retaining clients in the healthcare industry, as well as providing technical support. Following the webinar, a hands-on workshop will allow participants to see the speech-to-text system in action and test all its features.

How to Find and Retain Clients in the Healthcare Sector	NTA	29.10.	9-10h	Online	During this webinar, participants will explore key strategies for attracting and retaining clients in healthcare, with a focus on how technology can enhance client relationships and satisfaction. Key topics include understanding healthcare clients' needs; the role of AI-based solutions, such as speech-to-text systems, in improving healthcare workflows and client satisfaction (using real-world examples); building trust and credibility in the healthcare sector; and adopting a customer-centric approach. After the webinar, participants will take part in a hands-on workshop where they can see how AI-based speech-to-text systems can be applied in healthcare settings to improve efficiency and client experience.
General Certification of Software Support Producers by Industry	HZZO	29.10.	12-13h	HZZO- Hibridno	This session covers how software support manufacturers can apply for certification. It explains the certification procedure according to the business process specified in the certification record, including the prescribed steps in the readiness check procedure. The session also addresses the categorization of services and the specific business processes associated with each type of service.
eBusiness – HZZO Services for Business Users	HZZO	29.10.	13-14h	HZZO- Hibridno	This session covers the use of the business services of HZZO, which aims to establish open and high-quality communication with insured persons and employers as users. Services for employers (registration and deregistration of health insurance, registration of family members, registration of temporary incapacity for work). The method of using and processing data is prescribed by the Law on Compulsory Health Insurance, the Statute of the HZZO and the Law on Maternity and Parental Support. Receiving notifications from the system, etc.
Legal Framework for the Use of Data in Healthcare - EHDS	HZZO	29.10.	14-15h	HZZO- Hibridno	This session covers the possibilities of data reuse under existing EU and Croatian legislation. It explains the differences between EU regulations, directives, decisions, recommendations, and opinions. The European Health Data Space (EHDS) regulation specifies various possibilities and limitations for data users, including its applicable timeframe. Guidance on recommended standard permissions, datasets, and document reuse charges is also provided.

Croatian Health Data Center Services	HZJZ	30.10.	9-10h	Online	In light of the upcoming regulations on the European Union's Health Data Space (EHDS), Croatia will establish a body for data access. The Croatian Health Data Center will provide services such as a health data metacatalog, a data access form, and secure work environments for sensitive data, among others. The goal of this workshop is to familiarize participants with these services.
The National Public Health Information System	HZJZ	30.10.	10-11h	Online	The National Public Health Information System is an organized network of information services provided by the Croatian Institute of Public Health and shared with its partner institutions. The system enables the management of public health information and supports processes for recording, receiving, using, and archiving health data.
How to Generate Evidence to Support the Use of AI- Based Applications in Clinical Practice?	MEFST	30.10.	12-13h	Online	The lecture outlines key processes for evaluating the clinical evidence required for the use of artificial intelligence and machine learning-based software as a medical device (AI-SaMD) in clinical practice. It introduces fundamental concepts of evidence strength in medicine and emphasizes the importance of addressing bias as a critical prerequisite for ensuring robust evidence. The lecture also covers the evidence generation requirements for AI-SaMD procurement, ensuring that safety, performance within the clinical context, and clinical impact related to the intended use are clearly demonstrated. Cervical cancer screening is used as a practical example to illustrate these principles in real-world settings. The lecture is intended for individuals involved in product development, healthcare professionals participating in procurement, regulators, and those shaping healthcare policies.