



## **Carebot**

[www.carebot.com/en/carebot](http://www.carebot.com/en/carebot)

Carebot, the Central European leader in AI solutions for image diagnostics, is redefining medical innovation. Specializing in chest X-rays, mammography, bone X-rays, and fractures, Carebot helps doctors deliver faster, more accurate diagnoses. Its products are not only certified medical devices but also seamlessly integrate into standard systems used by doctors, including hospital information systems, PACS systems, X-ray equipment, and viewers. This integration facilitates a smooth workflow, allowing Carebot's advanced diagnostic tools to become an integral part of everyday medical practice. The development of Carebot's models is a collaborative effort with hundreds of doctors across Europe, ensuring a wide range of medical expertise feeds into the technology. This collaboration and the ability to fit into existing healthcare infrastructures ensure Carebot enhances the quality of patient care, addresses the shortage of specialized personnel, and serves as an invaluable second opinion in diagnostic processes.



## **Aireen**

[www.aireen.com/en](http://www.aireen.com/en)

Aireen is an innovative Czech company, developing AI software to diagnose chronic diseases based on retina images. For many years, it is well known fact that a number of diseases can be recognized on the eye retina. This can be used especially for screening and early detection of various chronic diseases. Thanks to the possibilities of artificial intelligence, it is now possible to analyze retinal images in real time with Aireen's artificial intelligence in any outpatient settings. Aireen is already in use for screening of a serious complication of diabetes - diabetic retinopathy, which can lead to vision loss. AI screening of patients for the presence of diabetic retinopathy has been ongoing for more than a year

in the routine outpatient care of diabetic patients in Czech healthcare. Due to the fact that Aireen is a fully MDR certified, class IIb medical device, it delivers autonomous diagnostic capacity, i.e. the result of the AI evaluation of the retinal images no longer needs to be reviewed by a specialist doctor. This makes it possible to use screening on a wide scale with a real reduction of workload and doctors' time. As an additional diagnostic capacity, Aireen now provides maculopathy - AMD (age-related macular degeneration), which is a serious eye disease occurring across the entire population. Aireen has also received a grant to research and develop new diagnostic capability of cardio diseases from fundus images, which is now being worked on in a consortium with two universities.



## **Virtual Lab**

[www.virtual-lab.cz](http://www.virtual-lab.cz)

Virtual Lab is a Czech technology company that develops virtual reality training applications for medical purposes. Its activities include, for example, the creation of virtual environments for training with lifesaving devices in the intensive care unit of the VR ICU®. In a safe environment, healthcare professionals train for crisis situations that they would train in the real world with real devices and patients. Cardiopulmonary resuscitation using the VR CPR app helps both professional rescuers and the public to train them to handle stressful situations during resuscitation. Virtual Lab collaborates with research institutions, hospitals, medical schools, and other organizations in the healthcare field. Its applications are already used by healthcare professionals in 12 countries on 4 continents.



## **VR LIFE (VR VITALIS)**

<https://vrvitalis.cz/en>

Our company has been on the market since 2018. Cooperating with healthcare we started in 2019 and in cooperation with physiotherapists and doctors, we created a unique SaaS application in virtual reality. Application for rehabilitation called VR Vitalis and this is in use from 2022. Year later we managed to get medical device certification class I and change the product name to VR Vitalis Pro. We currently have two rounds of investment and are going for a third.

The reason why we decided to develop our application specifically for rehabilitation is that both in the Czech Republic and in the world, there are long waiting periods for post operative and post-traumatic rehabilitation and there is a lack of qualified physiotherapists. Physiotherapists who use VR Vitalis Pro as part of rehabilitation are able to work with more patients during the day thanks to the time saved. Exercising in virtual reality can replace expensive rehabilitation equipment and this can save the hospital money. Thanks to rehabilitation in virtual reality, patients suppress psychosomatic pain from rehabilitation and are more motivated to exercise. A big benefit is that our application can be used not only in the rehabilitation department, but also in the ARO, spinal units, orthopedics, in the lung department, long-term care departments, or also in psychiatry and social services, etc.



## **OR-CZ**

[www.orcz.cz/en](http://www.orcz.cz/en)

Company OR-CZ is a Czech IT leader in the supply of technology to the healthcare industry. It has been operating on the market for more than thirty years and currently has more than 120 customers from the healthcare sector, from polyclinics, regional and university hospitals or large regional solutions available for all hospitals. The MARIE PACS solution offers state-of-the-art tools for the diagnosis of image patient data, archiving of all types of image documentation and ensures the complete workflow of the radiology workplace. Together with integrated tools for automatic examination evaluation (AI), other tools for communication and data sharing between healthcare facilities and integration with other information systems, it represents a comprehensive solution for working with medical documentation.



## **Daktela**

<https://daktela.com/hu/>

Daktela, with its headquarters in the Czech Republic and an office in Hungary, has emerged as a frontrunner in the Czech and Slovakian markets, showcasing unparalleled expertise in omnichannel contact center solutions. Our proven track record in delivering exceptional omnichannel contact center solutions has solidified our position as a market leader. However, ambitions of Daktela extend far beyond conventional business landscapes, as evidenced by our pivotal role in the Czech health and military sectors. As trusted partners to government entities, we leverage our innovative technology to address critical needs in these domains, underscoring our commitment to societal advancement. Daktela consistently led the charge in harnessing Artificial Intelligence (AI) technologies, ensuring that our offerings remain at the vanguard of industry standards.

At the core of Daktela's AI solutions lies a dedication to fostering seamless customer experiences. Through the integration of AI-driven functionalities, we adeptly alleviate the burdens of administrative tasks, enabling organizations to focus on their core missions with renewed vigor. By automating repetitive processes, minimizing human error, and enhancing operational efficiency, our solutions redefine the very fabric of modern enterprise, including support in digital healthcare for hospitals, and other private healthcare facilities.