EDIH Czech Technical University in Prague
EDIH CTU

European Digital Innovation Hub in the Czech Republic in the field of Artificial Intelligence (AI) and Machine Learning (ML)

GRANT AGREEMENT NUMBER: 101083359

Deliverable D4.1
E-learning materials

Inspire and make the Czech AI-driven Industry

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Confidentiality	
Does this report contain **confidential** information?	Yes ☐ No ☑
Is the report **restricted** to a specific group?	Yes ☐ No ☑ *If yes, please precise the list of authorised recipients*:

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List of Abbreviations and Acronyms

AI	Artificial Intelligence
CTU	Czech Technical University In Prague
EDIH	European Digital Innovation Hub
MLSA	Ministry of Labour and Social Affairs

1. Introduction to the Document

The E-learning Materials document is a compilation of an array of educational resources focused on the domain of Artificial Intelligence (AI). It contains information on videos, interactive e-learning documents, courses, websites, and much more. Each entry is accompanied by a short description, enabling users to quickly discern the content's relevance and a link to this source. These resources span from introductory materials for AI novices to advanced content.

The primary purpose of this document is to offer a structured and user-friendly guide for individuals and institutions keen on enhancing their understanding of AI. In an era where AI is rapidly evolving and permeating various sectors, there is an increasing demand for accessible and high-quality educational content. This document addresses that demand, serving as a one-stop shop for AI enthusiasts, students, educators, and professionals. By centralizing a diverse range of learning materials, the document aims to streamline the educational process, making it easier for learners to navigate the vast ocean of AI information and continue their learning journey.

All the resources detailed in this document are conveniently published on the EDIH CTU project website. This ensures that users have direct and immediate access to the described content, facilitating learning and exploration directly from the platform.

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2. Resources

Title	Description	Link
Elements of AI	Elements of AI is a free online course for anyone who wants to learn what AI is, what it can and cannot achieve, and how it affects our lives. No advanced math or programming knowledge is required to take the course. In addition, participants in this course, which combines theory with practical tasks, will learn how they can start creating AI-based methods. The course can be completed at your own pace and ends with a certificate.	https://www.elementsofai.cz/
AI and its use in companies	A recording of a workshop to present and discuss the possibilities of using AI-based tools/machine learning in companies. During the workshop, current AI trends and the process of AI implementation in companies are presented. Furthermore, specific use cases of AI in the pharmaceutical industry and banking are presented. This is followed by a panel discussion focused on the topic of AI implementation in companies.	https://www.youtube.com/watch?v=iFDZlFHoQjg
Generative AI in companies	A recording of a workshop that introduces the possibilities of using generative AI (such as ChatGPT) in a corporate environment, as well as specific examples and benefits of these tools for business. The following questions are answered during the workshop: • What is generative AI and what are its main areas of application in companies? • How can ChatGPT and similar tools improve client communication and internal processes? • What are the possibilities of integrating generative AI into company systems and how is the implementation done? • What are the ethical, legal and regulatory considerations and constraints associated with the use of generative AI? • What is the expected evolution of generative AI and how can companies prepare for it?	https://www.youtube.com/watch?v=ustV7GPnl-Q
AI 4 Business	A recording of a conference focused on substantive and practical formats for introducing AI into business	Will be available in

Title	Description	Link
	processes, products and services. AI 4 Business is a course for innovation and performance managers, business owners, strategy consultants and others who need to get verified recommendations from experts and learn from the open sharing of experiences from companies in different segments. The recording is from two different sessions: 1) Implementing AI from Vision to Scale that focuses on the patterns of successful AI project implementation. 2) Mastering Generative AI from Tools to Law showcases several custom-built enterprise solutions in addition to beneficial tools "on the cheap" and provides essential recommendations and legal insights for effective and safe implementation of generative AI in companies.	November 2023
AI 4 Government	A recording of an event aimed at presenting interesting examples of the use of AI in public administration. The possibilities and procedures of putting AI into practice, inspiration from abroad, possible risks and limitations, and training offers are presented.	Will be available in November 2023
TO MÁŠ - portal of the Chamber of Commerce	The Chamber of Commerce portal acts as a signpost and search engine for relevant online courses, including AI applications, tips and tricks. It also features a general search engine for ICT solutions and suppliers.	https://to-mas.cz/#/
IBM SkillsBuild	Free courses for more advanced users. Filtering of courses is possible by a target group - high school students, university students, and adult students. Some courses are translated into Czech. Completed with a certificate.	https://skillsbuild.org/cs/adult-learners/explore-learning/artificial-intelligence
Google Digital Garage	The courses are free of charge and in English. They will guide you through the basics of a promising field. There are three categories of courses: • digital marketing, • career development and • data.	https://grow.google/intl/cz/courses-and-tools/?category=career&topic=ai

Title	Description	Link
Machine Learning College	These educational materials are created with the support of prg.ai and the City of Prague as a supplementary text for teaching students about artificial intelligence at secondary schools within the AI Academy. These courses do not have the ambition to be a comprehensive textbook for self-study. However, they can serve anyone who wants to get a basic picture of the field of artificial intelligence.	https://www.mlcollege.com/umela-inteligence-pro-kazdeho/
Retraining courses of the Ministry of Labour and Social Affairs	E-shop of retraining courses of the Ministry of Labour and Social Affairs (MLSA). Subsidized courses will enhance your professional resume, add knowledge for career growth, and increase your value in the job market. The MLSA will pay 82% to 100% of the course price for you up to a maximum of CZK 50,000.	https://www.uradprace.cz/web/cz/vyhledani-rekvalifikacniho-kurzu?typKurzu=1.4
Jan Romportl on AI	Jan Romportl is an AI researcher, entrepreneur, consultant, and executive. He studied cybernetics and artificial intelligence, then led the renowned AI centre O2. At this moment, he is a freelance AI expert and consultant. In a new interview, he and Robert Vlach talk about the rise of AI.	https://www.youtube.com/watch?v=jQKjfnEBWOI
AI in context	"AI in context" is a series of lectures and follow-up discussion seminars by Charles University, where selected experts offer the audience diverse perspectives on artificial intelligence in the context of different disciplines (e.g., art, law, ethics, security, philosophy).	https://www.youtube.com/playlist?list=PLaQcpTQYTUSRE-8U2ZI8D5TplxutIeRFB
E-book generative AI vs. law	A handbook that helps users of generative AI to answer basic questions: • What questions or images can you submit to the AI for processing? • How do you need to publish AI responses? • What rights do you have to the output you create? • Can someone sue you for the AI output you publish?	https://cutt.ly/kroupahelan_AI
General introduction to artificial intelligence for adults	Educational material created to offer beginners a basic insight into AI. The chapters of this guide have been developed by experts so that they do not require specific initial knowledge or skills.	https://aidetem.cz/obecny-uvod-do-umele-inteligence/

Title	Description	Link
Educast on AI	A comprehensive format of interviews with experts on various areas related to AI, guided by moderator Sara Polak.	https://aidetem.cz/educast/
Tips on AI applications according to their intended use	A signpost to various applications of generative AI (e.g., text, image, video generators, digital personas, etc.).	https://aidetem.cz/tipy-na-aplikace-umele-inteligence-dle-ucelu-uziti/