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Nr.crt.	Titlu lucrare	Scurta descriere	Cerinte	Nivel (licenta/master)
1	Spotting Autism Early: Harnessing Video Processing for Timely Detection	Early detection of signs that indicate an increased risk of developing autism spectrum disorders in the future using artificial intelligence processing of videos of children. Creating a personalized index correlating the risk of occurrence.	Basic knowledge of computer vision algorithms. Previous experience in Python is preferred. A high level of independence is required as the student will be collaborating with a research team!	BSc
2	Unlocking the Future: Advanced Biometric Algorithms Transforming Security Access in High-Security Locations	Using face biometrics to improve access services at public events and in secure locations. Improving current algorithms in terms of the size of information processed and execution time.	Basic knowledge of biometric data processing algorithms. Previous experience in Python is preferred. A high level of independence is required as the student will be collaborating with a research team!	BSc
3, 4	Revolutionizing Healthcare: How AI is Transforming (3) Early Puberty Insights and (4) Liver Cancer Detection	Using AI for early disease detection and creating a personalized treatment plan.	Basic knowledge of image processing algorithms. Previous experience in Python is preferred. A high level of independence is required as the student will be collaborating with a research team!	BSc
5	Shining a Light on Sleep: Unraveling the Connection Between Nighttime Illumination and Sleep Quality	Analysis of the influence of light at night (LAN) on sleep quality. Development of personalized LAN management algorithms.	Basic knowledge of data processing algorithms. Previous experience in Python is preferred. A high level of independence is required as the student will be collaborating with a research team!	BSc
6	Dreams and Development: Uncovering How Sleep Shapes Baby Growth	Analyzing the influence of sleep (qualitative and quantitative) on the development of the person in the first years of life. Creation of an automated framework for risk	Basic knowledge of data processing algorithms. Previous experience in Python is preferred. A high level of independence is required as the student will be collaborating with a research team!	BSc

		assessment, early risk detection and risk mitigation.		
7-9	Tailored Digital Twins: Revolutionizing Sleep Quality Analysis for the Modern Workforce	Developing Digital Twin solutions to analyze the sleep quality of individuals, based on several profession-specific characteristics.	Advanced knowledge of data and image processing algorithms. Previous experience in Python is mandatory. A high level of independence is required as the student will be collaborating with a research team! Moreover, the student will access information that is not intended for public release. Therefore, a strong sense of responsibility is essential!	BSc