

TEACHING THE BASICS OF ARTIFICIAL INTELLIGENCE AT HIGH SCHOOL

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Since data science or artificial intelligence (AI) related courses will appear in all STEM curricula, it is very important for the student to meet with the basics at high school. In the collaboration of Attila József Secondary Grammar School in Makó and the Bolyai Institute, we started implementing an extracurricular program, where we discuss the foundations of machine learning with students from Mathematics-Informatics specialization. The approach is interdisciplinary focusing on mathematical aspects of the topics. The curriculum consists of two 18-hour modules mixing the mathematical and the programming elements.

In this talk I will introduce the content of the two modules and the applied methodologies. I will compare the experiences from the sessions at the test phase of the program (from 2019-2020) and the officially held first round (from 2021-2022). I will present the didactic and content changes, which we have to elaborate during the first round and I will share my opinion about how to incorporate similar materials into the local curricula and how these changes could fortify the bridge between the secondary and the higher education. This is a joint work with Norbert Bogya and Zsolt Vizi from Bolyai Institute, University of Szeged.

The presented curriculum and methodologies are parts of my ongoing Master Educator (Mestertanári) Program.