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AI4K12.org Releases “Activity Resource Guides” for Teaching Artificial Intelligence to K-12 Students

AI4K12.org, today announced the release of the first titles in a collection of “activity resource guides” for teaching artificial intelligence to K-12 students. AI4K12.org is chaired by David Touretzky, Research Professor of Computer Science at Carnegie Mellon University, and co-chaired by Professor Christina Gardner-McCune, Associate Professor in the Department of Computer & Information Science & Engineering at the University of Florida. The development of the guides is being funded by a grant from NEOM Company.

Each guide shows teachers how to conduct an activity with their students to demonstrate a concept in Artificial Intelligence. For example, one guide focuses on teaching students to investigate speech recognition using their web browser. It offers a series of experiments they can run to test how the speech recognition engine employs contextual and cultural knowledge to resolve ambiguity in spoken language. Another guide shows how to teach students to model a voice-activated intelligent assistant.

The activity guides will supplement the AI4K12 grade band progression charts previously released by AI4K12.org, which define what students should know about AI and what they should be able to do with it. Many entries in these charts include suggested activities, but due to space limitations they do not offer instruction on how to implement them.

While the first few guides were authored by Touretzky and/or Gardner-McCune, other AI educators are contributing as well, and their additions will be released in the coming months. “We are happy to hear from people interested in developing guides for the series, or suggesting ideas for future guides that we could develop” says Touretzky.

“These guides are a wonderful complement to the grade band progression charts and provide concrete ways for teachers to make AI accessible to their students” says Gardner-McCune.

The guides are released under a Creative Commons license and are free for anyone to use. They can be accessed at <https://AI4K12.org/activities>.