

Introducing Natural History Research with Artificial Intelligence to Classrooms

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This paper suggests fossil classification as a task that may intrigue students interested in biology and medicine. Discussion of how-to and data collecting methods are described in detail. The novelty of this paper seems to come from the distinct tool used to acquire data: a smartphone. Video and 3D stereolithography (STL) file that can be obtained with an ordinary smartphone makes deep learning possible with only a few fossil specimens. Easiness of creating dataset and training makes our method usable in classroom within teaching hours. The fact that one can 3D-print a STL file is also an advantage of our method.