
Journal **Concepts in Structural Biology & Bioinformatics** (JSBB)

ARTIFICIAL INTELLIGENCE & BIOLOGY ARTICLES

Communication abstract – for the I2A University Day 2023, 19 April 2023, University of Saida, Algeria

Open Source at the service of Artificial Intelligence

BAHLOUL Ahmed^{1*} & BAHRAM Tayeb²

¹ Department of computer science, University ORAN 1, Algeria

² Geometry, Analysis, Control and Applications Laboratory, Faculty of Sciences, Department of mathematics, University of Saida - Dr Tahar Moulay, 20100 Saida, Algeria

***Correspondence:**

BAHLOUL Ahmed – Email: bahlouldea@gmail.com

Received 19 April. Accepted and published: 05 May 2023

Abstract

The rise of artificial intelligence would probably not have been possible without the Free Software Ecosystem: open-source code, open data and open science have made it accessible and improved technologies by pooling efforts.

The dynamics of the Free Software Ecosystem have driven the development of so-called artificial intelligence (AI) technologies in recent years. Whether creating, training, or evaluating models, Free Software communities are widely mobilized.

Open source is fertile ground for pioneering software, especially in cutting-edge areas like artificial intelligence (AI) and machine learning (ML). Open source ethics and collaboration tools make it easier for teams to share code and data, and build on the success of others. In this article, we will present the main open source projects that are transforming the world of AI and machine learning.

Today, more than 44,788 open-source projects are referenced on Github behind the keyword "artificial intelligence". Many of these projects are developed in Python, supported by three flagship projects: Tensorflow (and its simplified interface, Keras), Scikit-learn and PyTorch.

Key words: Artificial Intelligence, Open Source, Tensorflow, Scikit-learn, PyTorch, Huggingface.