



Can machine learning do everything we need?

With the surge in machine learning and deep learning many problems can be solved simply by having enough data and compute. However, there are cases where one or both of these elements are severely constrained, in which case additional domain knowledge can be necessary. For instance some physics related problems requires computing Bessel functions.

In this project we seek to answer the following questions.

- Can a data-driven model learn a Bessel function by both accurately interpolating and extrapolating the function.
- Can a data-driven model efficiently evaluate a Bessel function.

Requirements:

Prior experience and a strong interest in machine learning are recommended. Creativity and programming skills are essential.

Interested? Please contact us for more details!

Contact

- Andreas Plesner: aplesner@ethz.ch, ETZ G95