Machine Learning in Sciences

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Chapter 1

Introduction and Background



Software required: This guide will require a basic knowledge of python 3, we recommend to install it with Anaconda. We also have an introduction to Python. We will use Sklearn and Keras for most of the introductory part and Tensorflor, Pytorch for the advanced parts.

Chapter 2

Results

Chapter 3

Conclusions

Here we will put the most significant results over time

Appendix A

Scripts

Appendix B

Extra plots

Appendix C

Inputs

Appendix D

Things to be careful with

- Remember to update the path and home in constants when trying to run the create_MOF script from a folder outside of scratch.
- Remember to change the time step in the in.lammps file from 2 to 1.
- Some of the nets in the database are just named according to shape and not by shape and symmetry.
- Make sure there is at least one SBU of the correct symmetry for a framework to be created from a net.

Bibliography