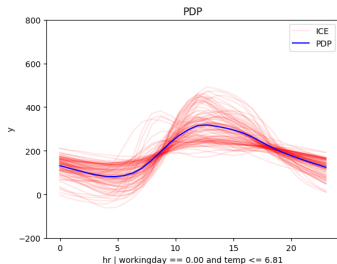
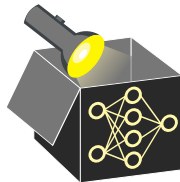


Interpretable Machine Learning

Feature Effects

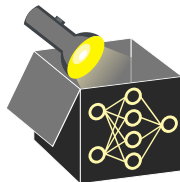
Further Resources and Software



Learning goals

- Learn about further resources
- Get an overview of software packages in R and Python

RESOURCES AND SOFTWARE:



Individual Conditional Expectation (ICE)

- The paper: ▶ Goldstein 2015
- Chapter in Interpretable Machine Learning book: ▶ Molnar 2025
- R packages: ▶ iml n.d. ; ▶ pdp n.d. ; ▶ ICEbox n.d.
- Python packages: ▶ PiML n.d. ; ▶ sklearn n.d.

Partial Dependence (PD) plot

- Chapter in Interpretable Machine Learning book: ▶ Molnar 2025
- R packages: ▶ iml n.d. ; ▶ pdp n.d. ; ▶ DALEX n.d.
- Python packages: ▶ sklearn n.d. ; ▶ effector n.d. ; ▶ PDPbox n.d.

Accumulated Local Effect (ALE)

- The paper: ▶ Apley 2020
- Chapter in Interpretable Machine Learning book: ▶ Molnar 2025
- R packages: ▶ ALEPlot n.d. ; ▶ iml n.d.
- Python packages: ▶ effector n.d. ; ▶ PiML n.d. ; ▶ ALEPython n.d. ; ▶ Alibi n.d.

Regional effect plots (REPID)

- The paper: ▶ Herbringer 2022
- Codebase: ▶ repid n.d.