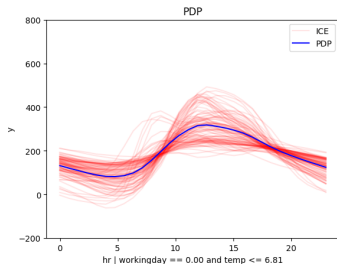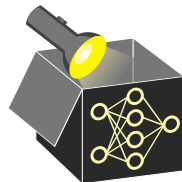# Interpretable Machine Learning
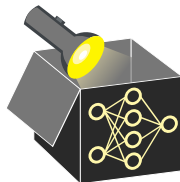
Feature Effects
Further Resources and Software

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 et al." 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 et al." 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: ▸ "Herbinger et al." 2022
- Codebase: ▸ "repid" n.d.