Feature set analysis for chess ЭИИ networks

Tesis de Licenciatura

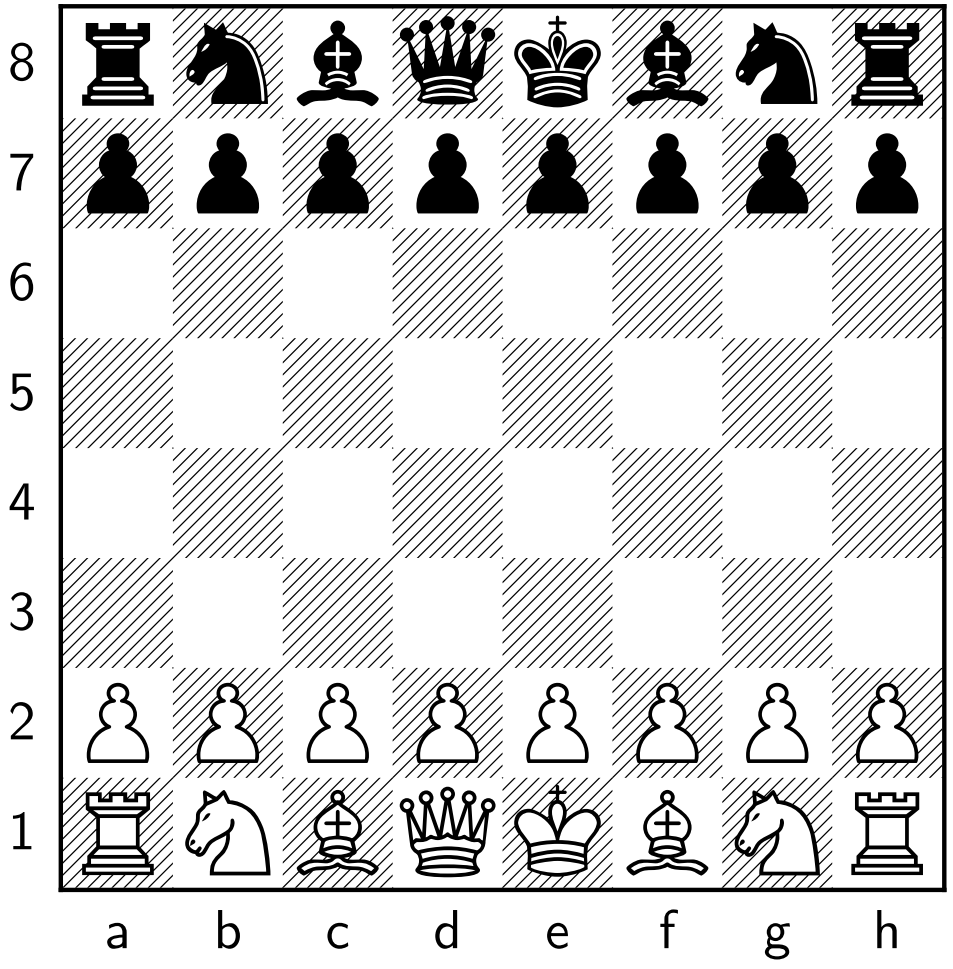
Martín Emiliano Lombardo

Departamento de Computación
Facultad de Ciencias Exactas y Naturales
Universidad de Buenos Aires

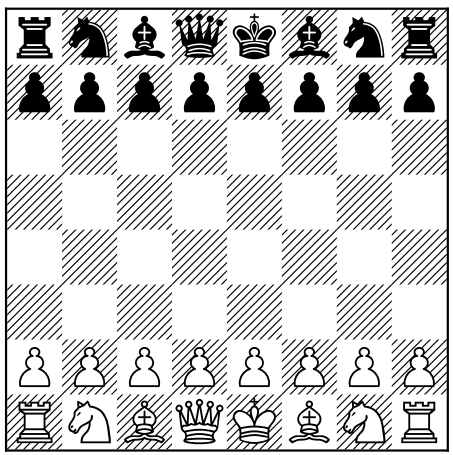
2024

Ajedrez

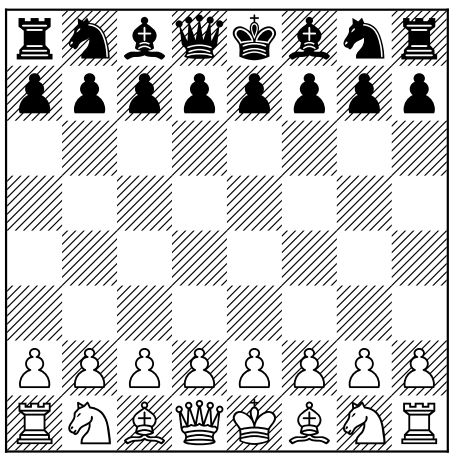
- Dos jugadores
- Suma cero

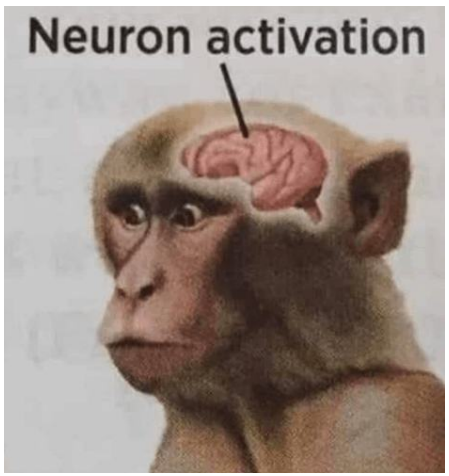


Humano vs. Computadora



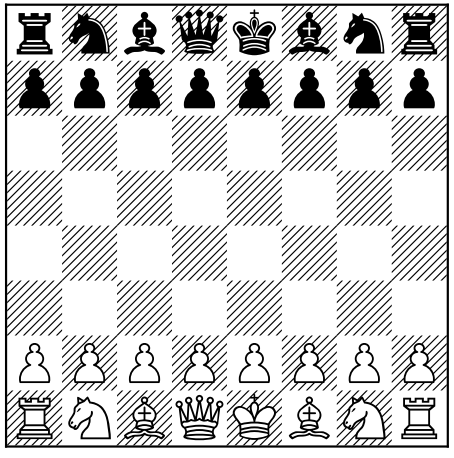
Humano vs. Computadora

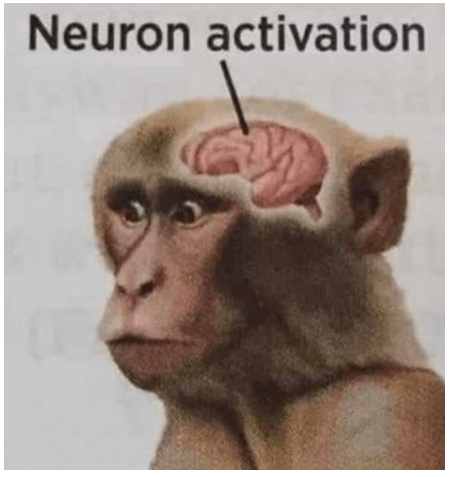




e2e4

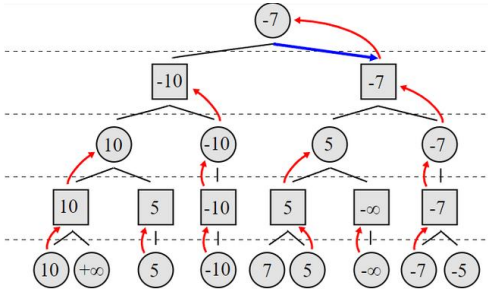
Humano vs. Computadora





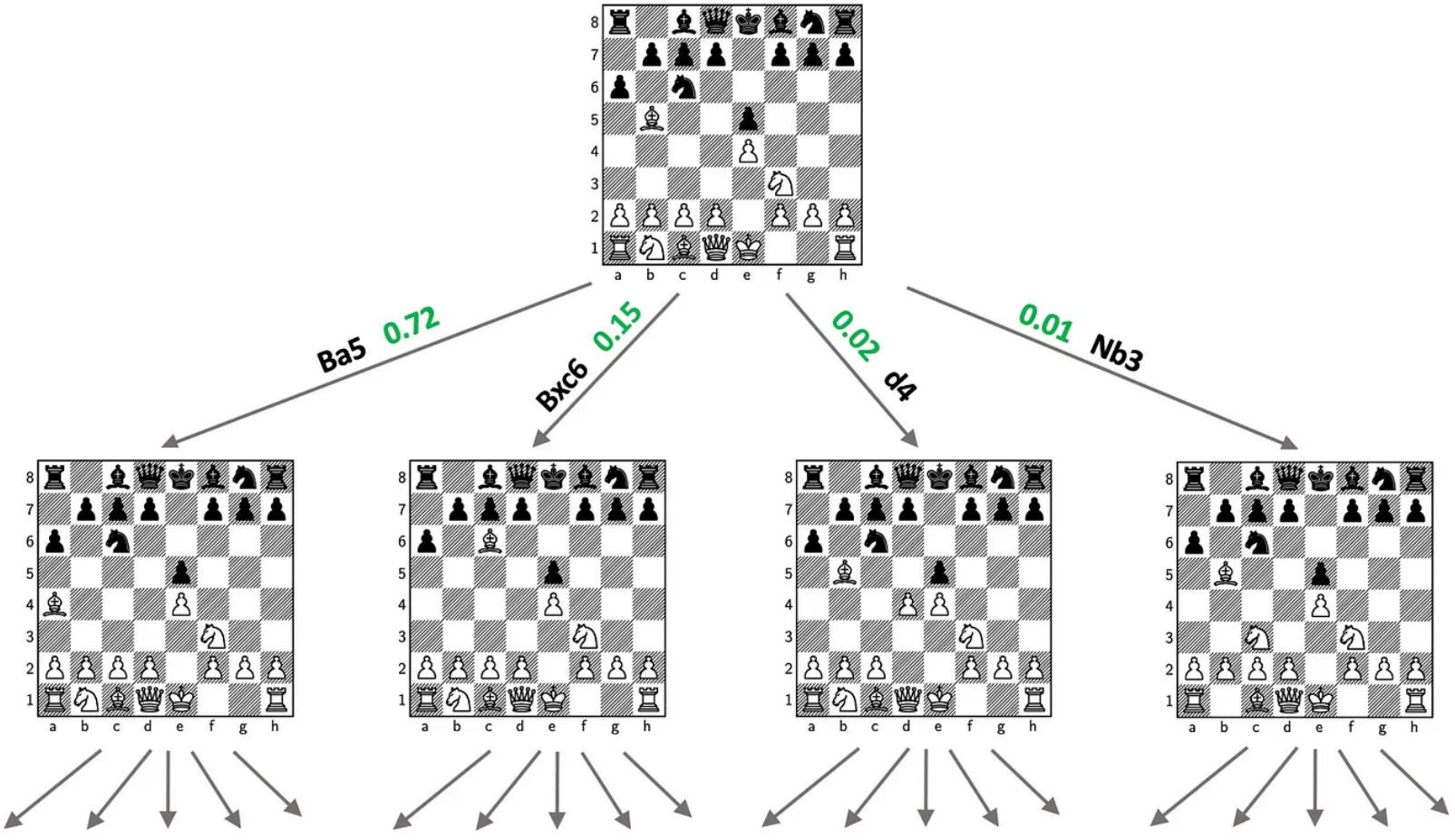
e2e4

Chess Engine



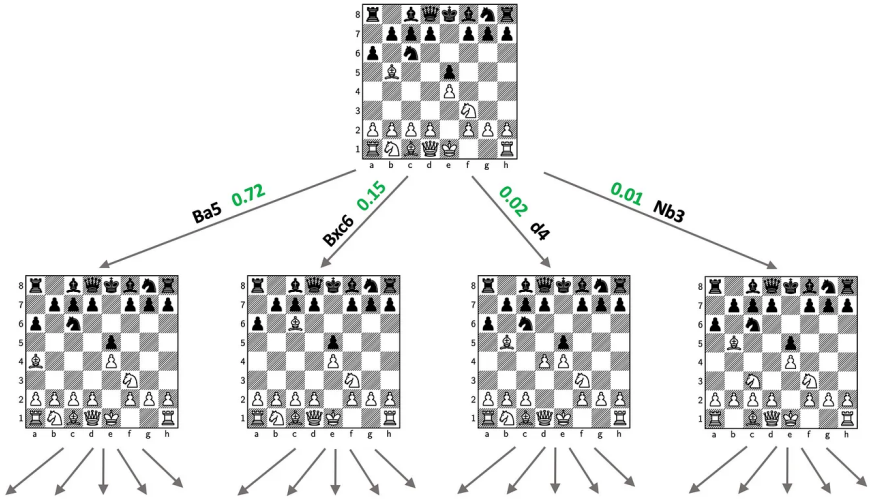
e2e4

Ajedrez como árbol



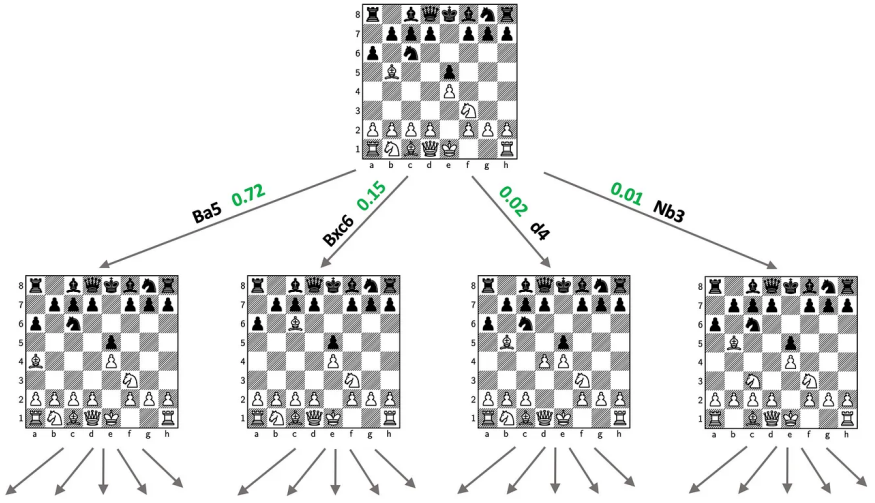
Motores de ajedrez (Chess Engines)

- Exploran el árbol de juego (Minimax, MCTS, etc.)



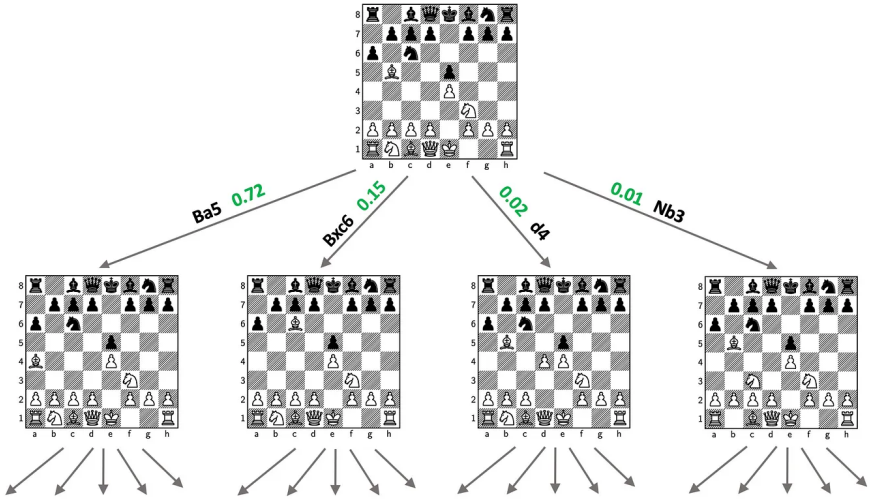
Motores de ajedrez (Chess Engines)

- Exploran el árbol de juego (Minimax, MCTS, etc.)
- Utilizan funciones de evaluación en las hojas

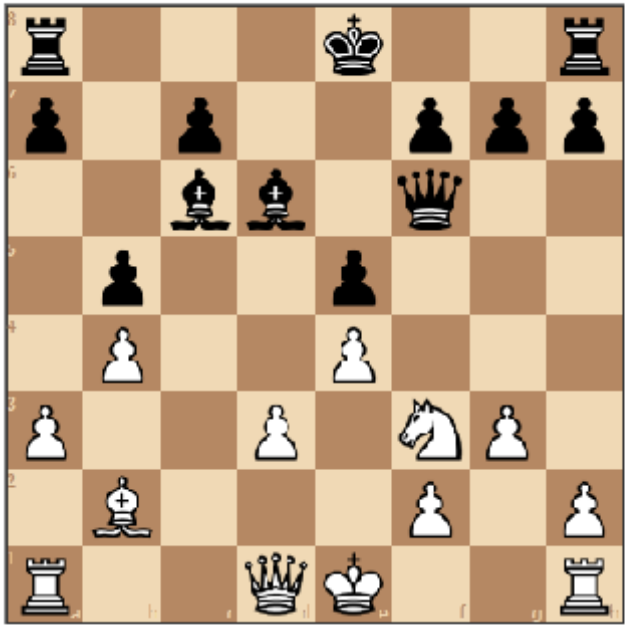


Motores de ajedrez (Chess Engines)

- Exploran el árbol de juego (Minimax, MCTS, etc.)
- Utilizan funciones de evaluación en las hojas
- La evaluación se propaga hacia arriba, según el algoritmo

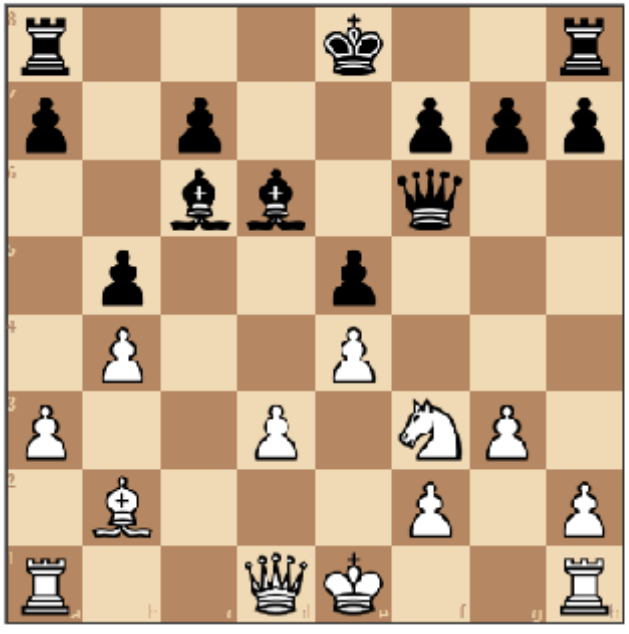


Función de evaluación

$$f\left(\right.$$  $$\left.\right) = 5$$

(adelanto) Feature set

$$f\left(\right) = 5$$



Motores de ajedrez (breve historia)

Plan

asdasd

- Text visible on slide 1

asdasd

Plan

asdasd

- Text visible on slide 1
- Text visible on slide 2

asdasd

Plan

asdasd

- Text visible on slide 1
- Text visible on slide 2
- Text visible on slide 3

asdasd

Plan

asdasd

- Text visible on slide 1
- Text visible on slide 2

- Text visible on slide 4

asdasd

Contenido

Sample frame title

This is some text in the first frame.

Sample frame title

This is some text in the first frame.This is some text in the first frame. This is some text in the first frame.

Sample frame title

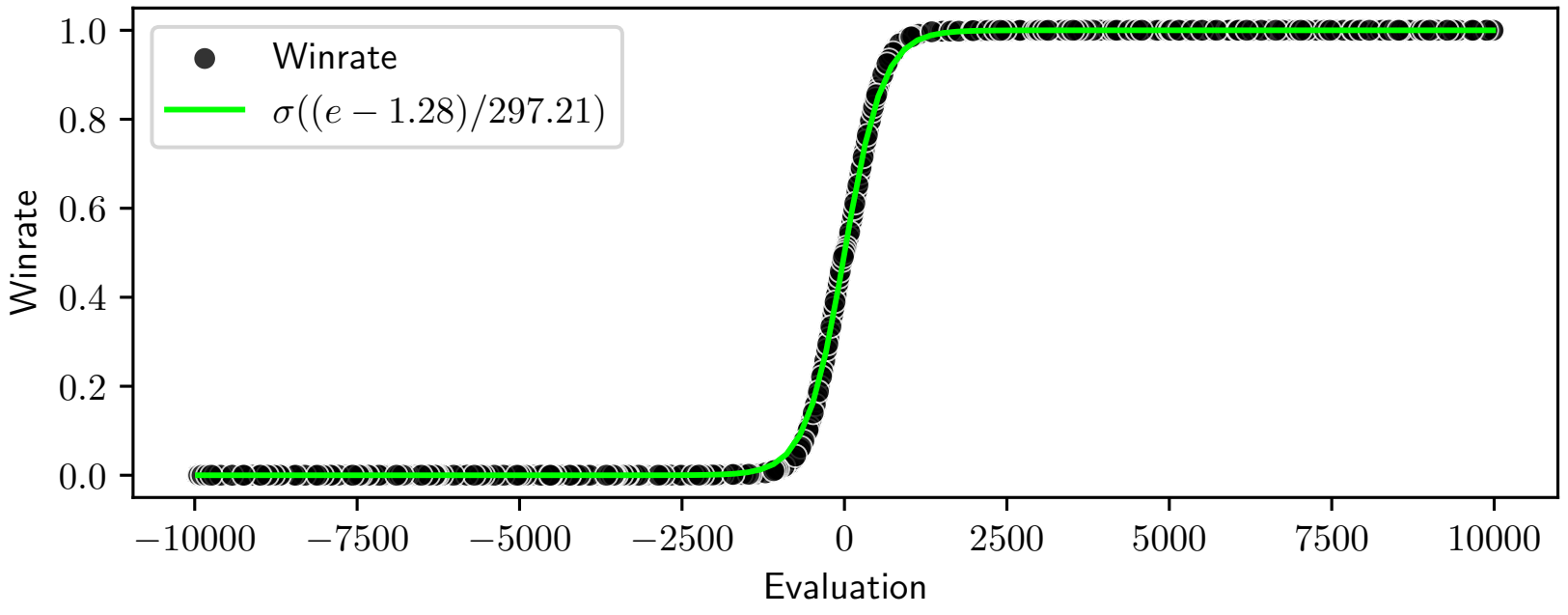


Figure: WDL model function (sigmoid) fitted to 100 million evaluations in the dataset.

Sample frame title

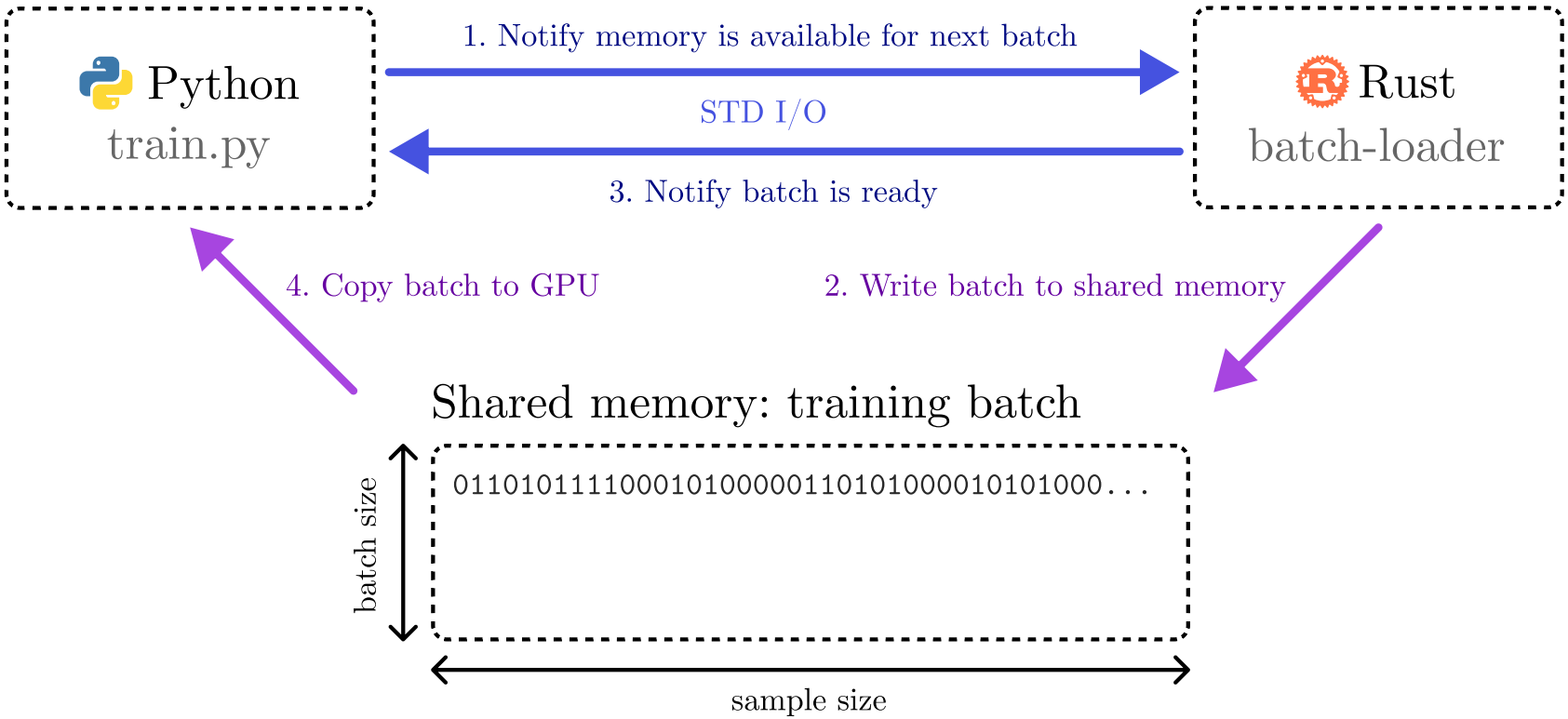


Figure: Sequence of steps to send a batch from the `batch-loader` subprocess in Rust to Pytorch.

Sample frame title

WORK IN PROGRESS