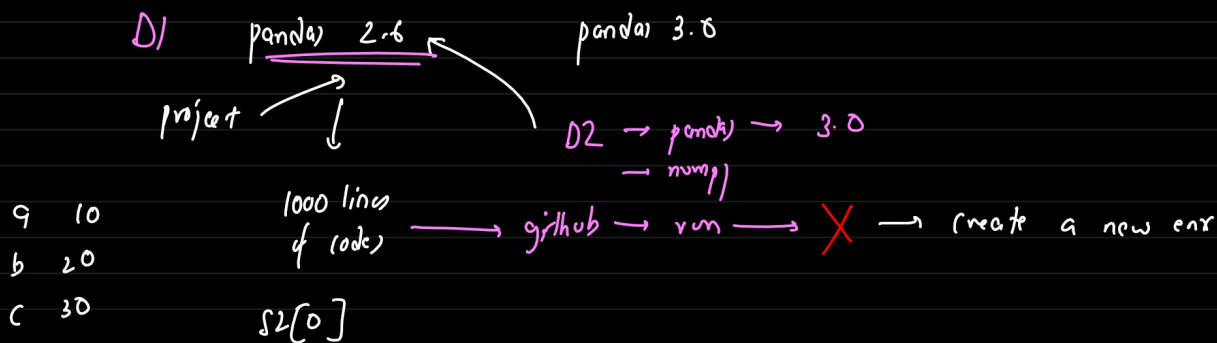_22-02-2026_

Agenda:

Pandas- I

What is Pandas?

Pandas is an open-source Python library for data manipulation and analysis. It gives you
powerful, fast, flexible, and expressive data structures designed to work with structured data.

It is built on top of NumPy, and its name comes from "Panel Data" (econometrics term for multidimensional data).

$D1$ pandas 2.6   pandas 3.0

Inject

$D2 \rightarrow$ pandas $\rightarrow$ 3.0
$\rightarrow$ numpy

a 10   1000 lines
b 20   of code $\longrightarrow$ github $\rightarrow$ run $\longrightarrow$ X $\rightarrow$ create a new env
c 30

$s2[0]$

| pyproject.toml | $D1 \rightarrow$ latest $\rightarrow$ pandas 3.0 $\rightarrow$ create env

$S2 \rightarrow$ $S2['a'] \longrightarrow$ $S2.loc(\quad)$

$S2[0] \longrightarrow S2.iloc(\quad)$

0 10
1 20 $\longrightarrow$ iloc
2 30 $\longrightarrow$

$S2[0] \longrightarrow 10$ $S2[[10,20]]$

$S2[a] \longrightarrow 10$ $S2[[a,b]]$

a 10
b 20 $\longrightarrow loc[\quad]$.
c 30