

Introduction to PyTorch

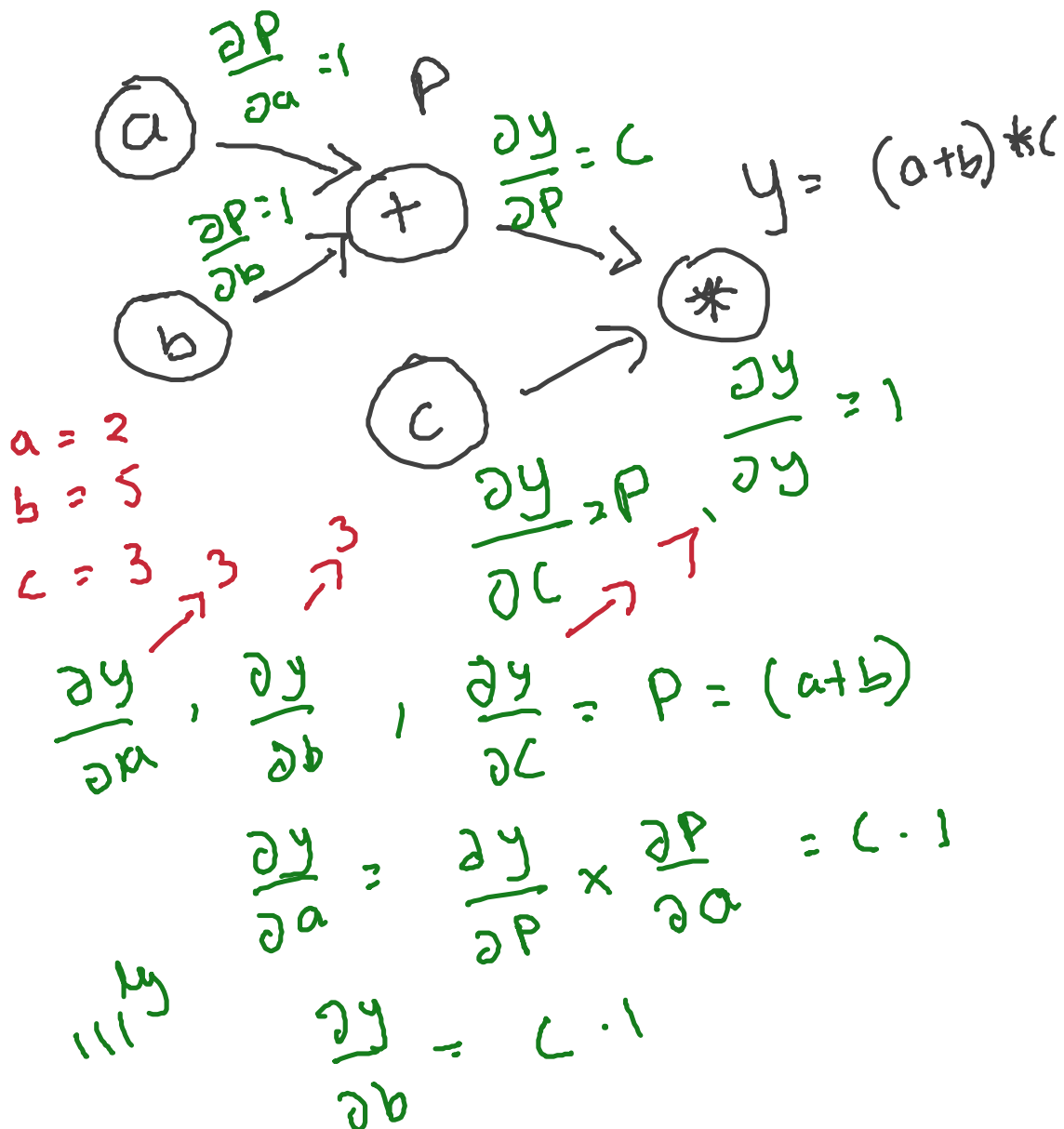
MLH Show & Tell

Tuesday, April 13, 2021 7:42 PM

@,matmul

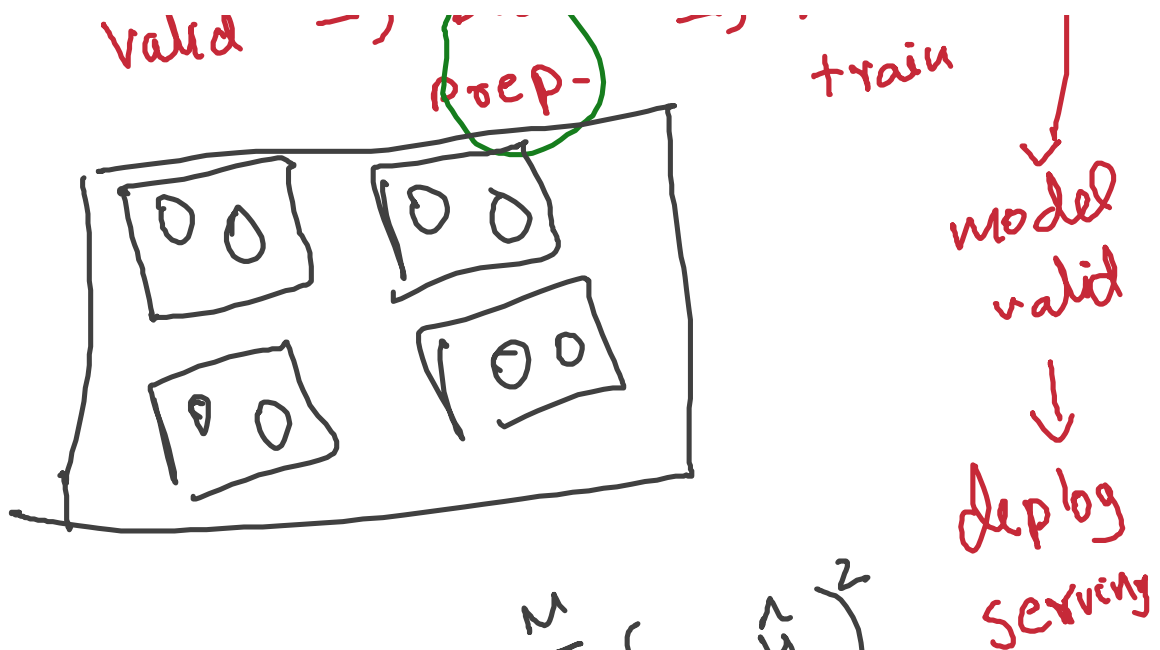
Topics Covered

1. Tensors
2. Computational Graphs
3. Datasets & Data Loaders
4. Linear Regression
5. Simple Neural Network
6. How to get Started (Supplementary Materials)



ML Pipeline

Data → ~~Data~~ → Model



$$\text{mse_loss} = \frac{1}{M} \sum_{i=1}^M (y_i - \hat{y}_i)^2$$

$$y = Wx + b \quad x \rightarrow y$$

W

$$\begin{bmatrix} 0 & 0 & 0 \end{bmatrix} \quad \text{reg} = \sum \sum W_{ij}$$

weight_decay

$$\text{reg} = \frac{\lambda}{2M} \sum \sum W_{ij}$$

$$\lambda = 0.01$$

$$\text{loss} = \text{mse_loss} + \text{reg}$$

