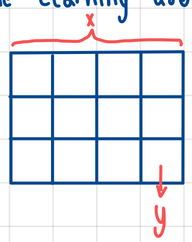
12/02/67 Deep Learning

Machine Learning หรือ Classical



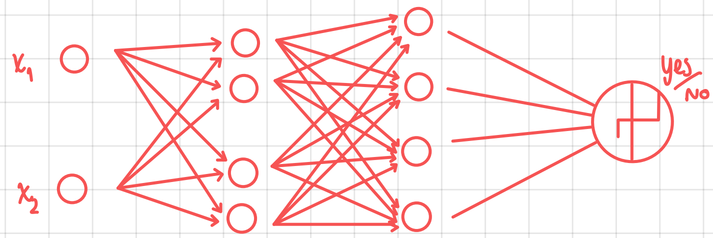
ต้องเปลี่ยนให้รูปเวกเตอร์ก่อน

feature or classical $= \{x_1, x_2, x_3, \ldots, x_n\} \mid x \in R$

Ex Histograms of oriented gradients

Deep Learning

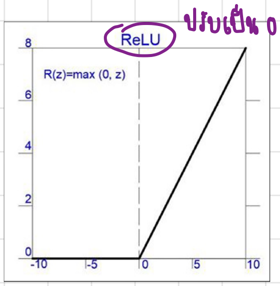
Ex Sobel filter

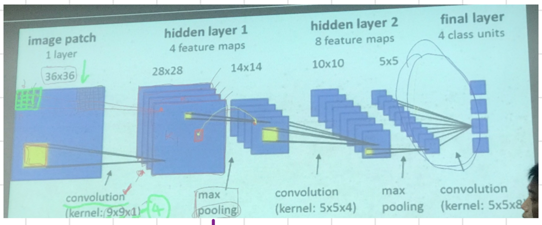


fully coneted
Dense layer

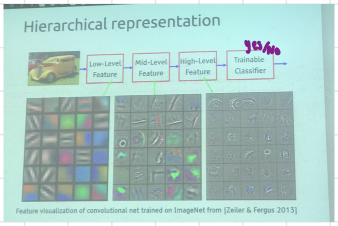
Activation function : กำหนดค่า range

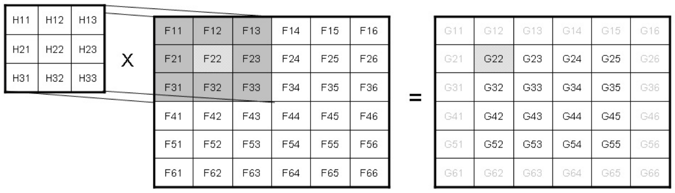
ปรับค่าไม่ให้ต่ำกว่า 0
ปรับเป็น 0 ให้ค่าเดิม



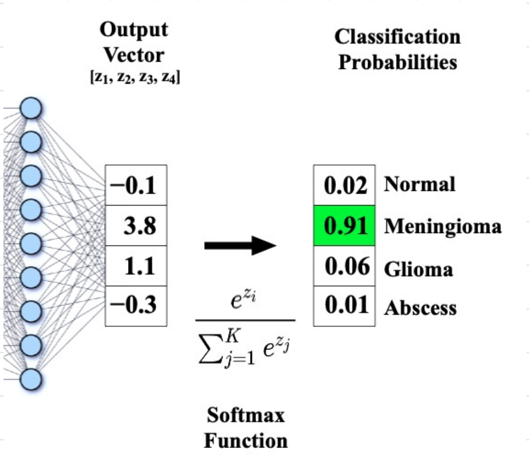


พิจารณาทีละ windows
แล้วเลือกค่าที่มากสุด



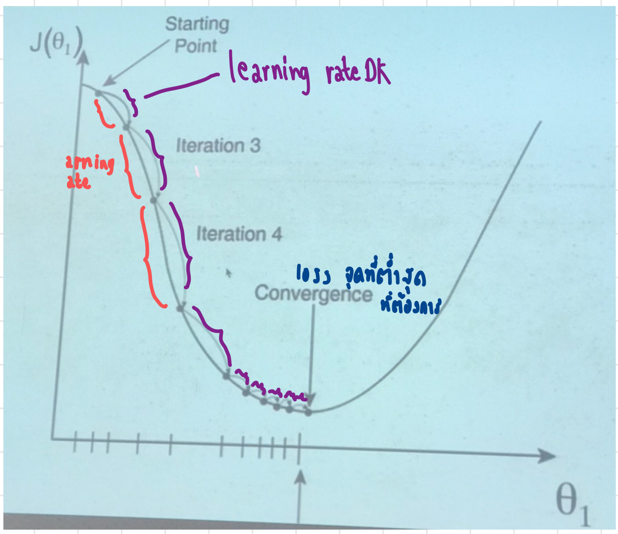


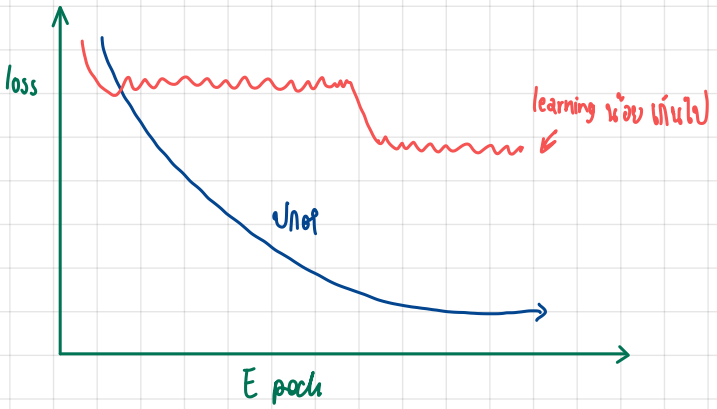
softmax

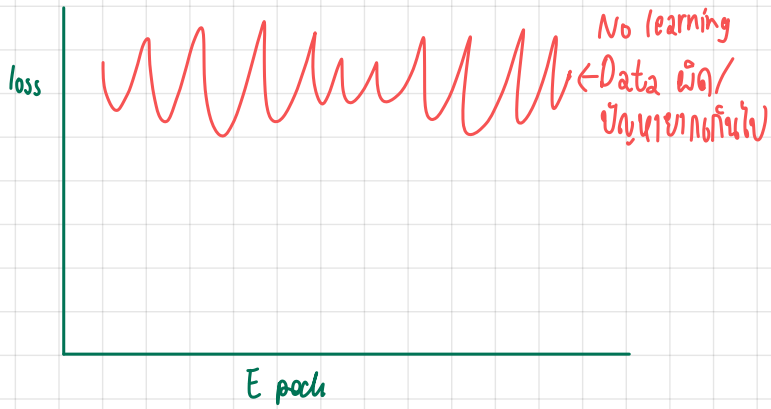


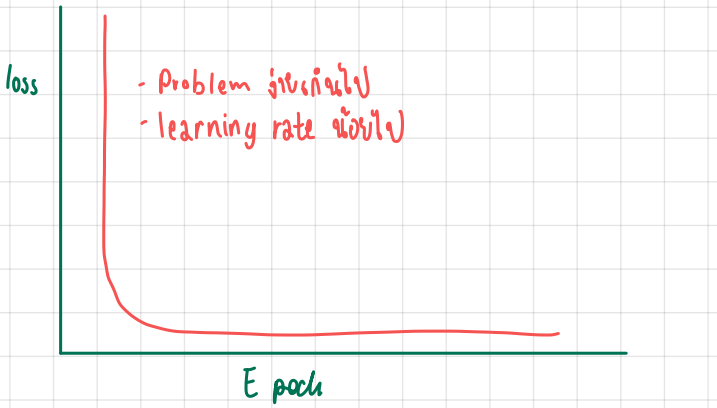
คำตอบ predict

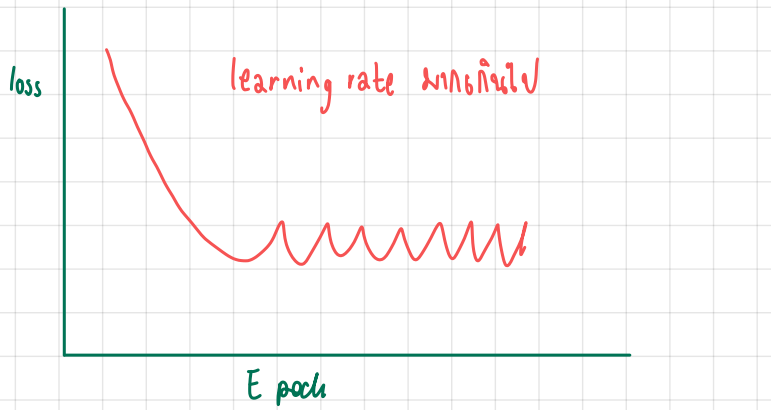
$$\text{Loss} = -\frac{1}{\text{output size}} \sum_{i=1}^{\text{output size}} y_i \cdot \log \hat{y}_i + (1 - y_i) \cdot \log (1 - \hat{y}_i)$$

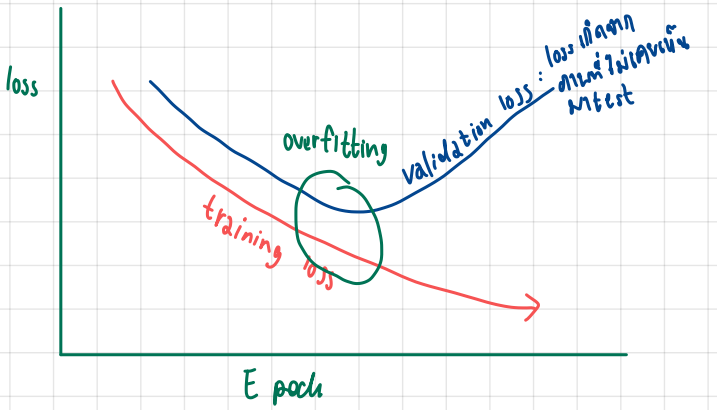












ขนาดของ batch ที่ใหญ่เกิน
training data
↓ ประมวลผล data ได้ไม่มีประสิทธิภาพ
Batch ← ปรับ weight
ในการใช้ตอบคำถาม