

⑥ Train Logistic regression Classifier

→ Using Newton's Method.

→ Start with $\theta = 0$, run Newton's method until the update to θ are small.

{ Train until first K iteration such that

$$\|\theta_K - \theta_{K-1}\|_1 < \epsilon \text{ where } \epsilon = 1 \times 10^{-5}$$
 }