Logistic Regression with Regularization $J(0,0) = -\frac{1}{2} \log \left(h_0(x) - (1-y_i) \log (1-h_0(x)) \right)$ Ridge $T(0,01) = -\frac{1}{2}\log(ho(x), -(1-y_i)\log(1-hox)) + \frac{1}{2} \text{ reductively}$ Lasso $T(0,01) = -\frac{1}{2}\log(ho(x), -(1-y_i)\log(1-hox)) + \frac{1}{2} \text{ regularishing}$ Elasticinet ElasticinetElashichet f(0,0) = -f(0,0) = -f(0,0) + (1-f(0,0)) + (1+f(0,0)) +Le regularization = Reduce overfitting $T(\theta_0,\theta_1) = -\int_{\mathbb{T}} \log \left(h_0(x)\right) - \left(1-\int_{\mathbb{T}} \log \left(1-h_0(x)\right) + \int_{\mathbb{T}} \sum_{i=1}^n \left(s|\phi_i|^2\right)^{n-i}$ Ly regularization > Feature selection J(θ.,θ) = - y log(ho(x)) - (l-y)og(1-ho(x)) + h ½ | Slope| Elastic Net (LI+Lz) $\mathcal{J}(\theta_0,\theta_1) = -\mathcal{J}[\log(h_0(n)) - (1-\mathcal{J}_0)\log(1-h_0(n)) + \lambda_1 \frac{2}{|x|}(slape)^2 + \lambda_2 \frac{2}{|x|}(slape)^2$

