Devising an explicit algorithm based on simple rules is difficult! L1 reg: $\ell = err(y, \hat{y}) + \lambda \sum_{i=1}^{N} |w_i|$ favours few non-0 coefs, L2 favours small coefs under-fitting \rightarrow high bias (high training, high test error) \rightarrow add features, decrease regularization term λ , increase degree of polynomial)

For convolutional layers: Image output size = $\lfloor \frac{M+2P-K}{2} \rfloor + 1$ # of params = $C \times K \times K$