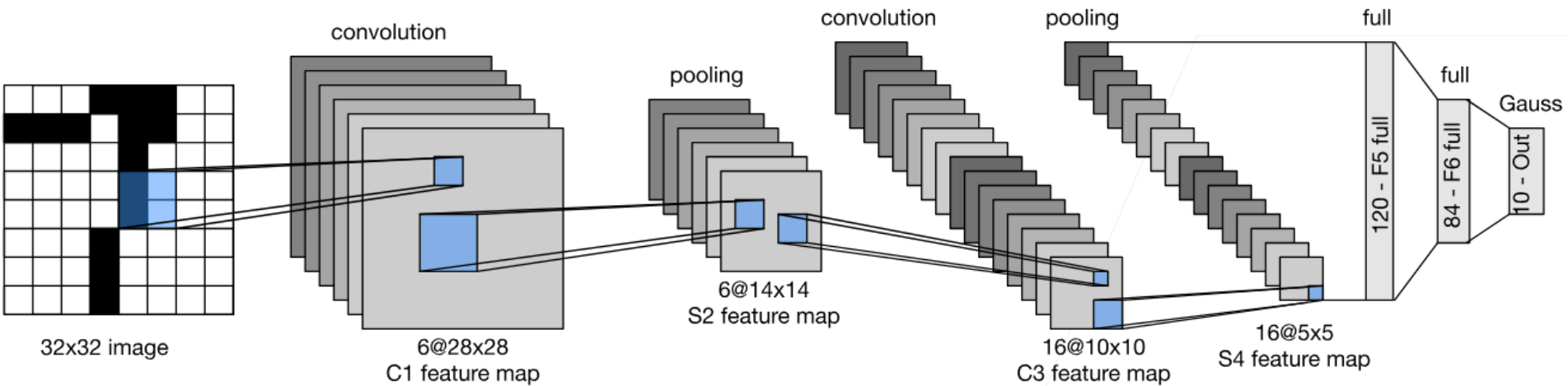
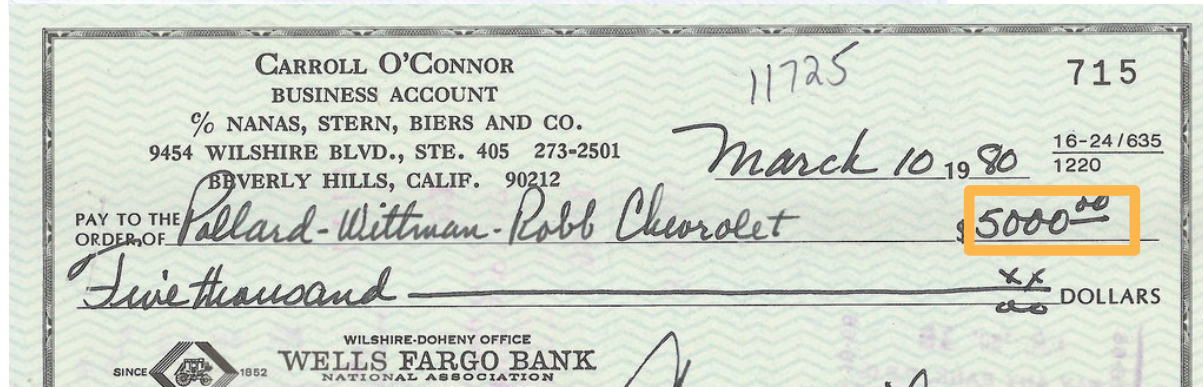
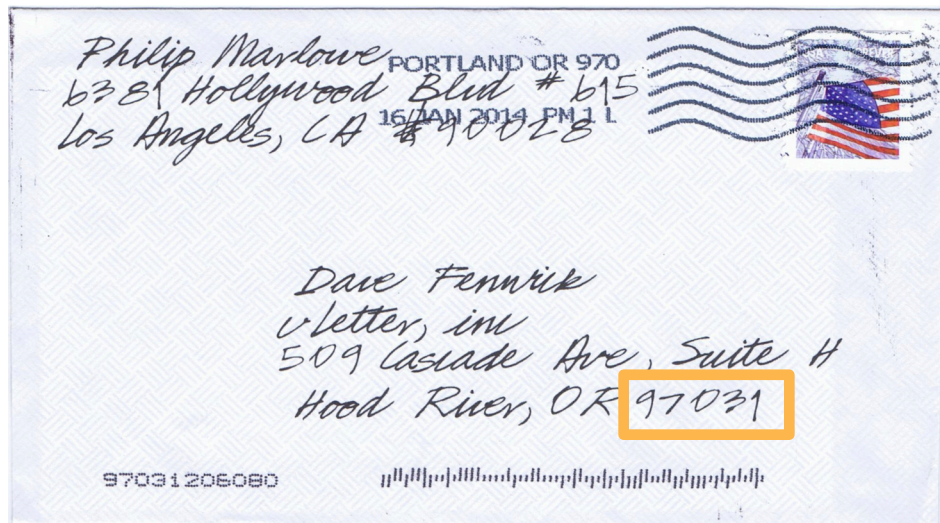




# LeNet



# 手写的数字识别



# MNIST

- 50,000 个训练数据
- 10,000 个测试数据
- 图像大小 28 x 28
- 10类

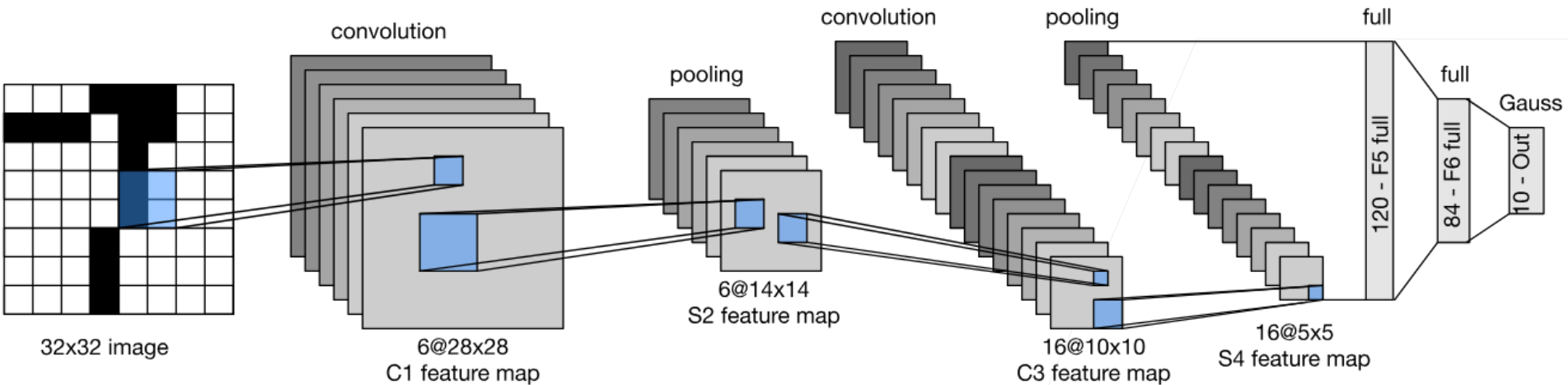




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Y. LeCun, L.  
Bottou, Y. Bengio,  
P. Haffner, 1998  
Gradient-based  
learning applied to  
document  
recognition



# 总结



- LeNet是早期成功的神经网络
- 先使用卷积层来学习图片空间信息
- 然后使用全连接层来转换到类别空间