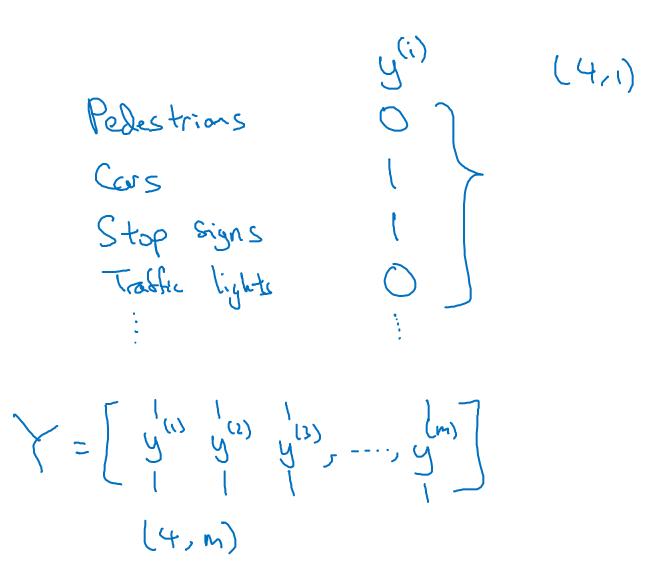


Learning from multiple tasks

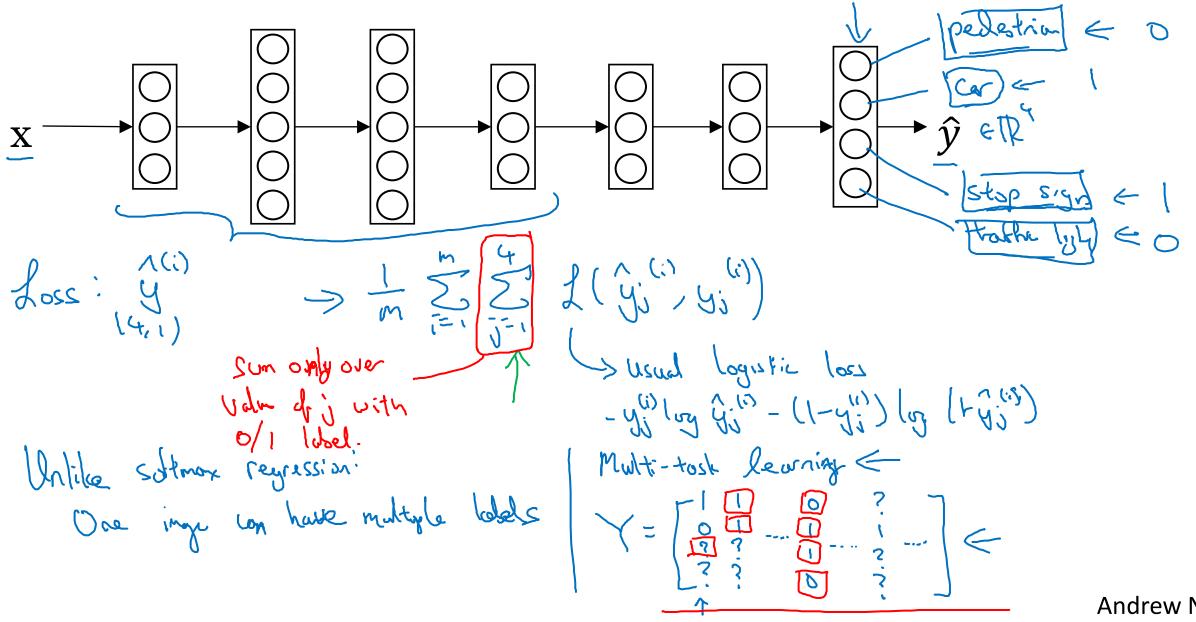
Multi-task learning

Simplified autonomous driving example





Neural network architecture



Andrew Ng

When multi-task learning makes sense

• Training on a set of tasks that could benefit from having shared lower-level features.

• Usually: Amount of data you have for each task is quite

similar. A 1,000
A, 1,000
A, 1,000
A, 1,000
A, 1,000
A, 1,000

• Can train a big enough neural network to do well on all the tasks.