

Italian  
food

**Transfer Learning**

text  
to

pre-trained model

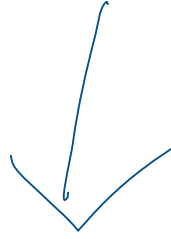
↓ reuse

to solve a new

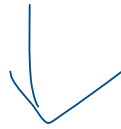
can  
td  
bel

problem

Neural Networks



Detect edge



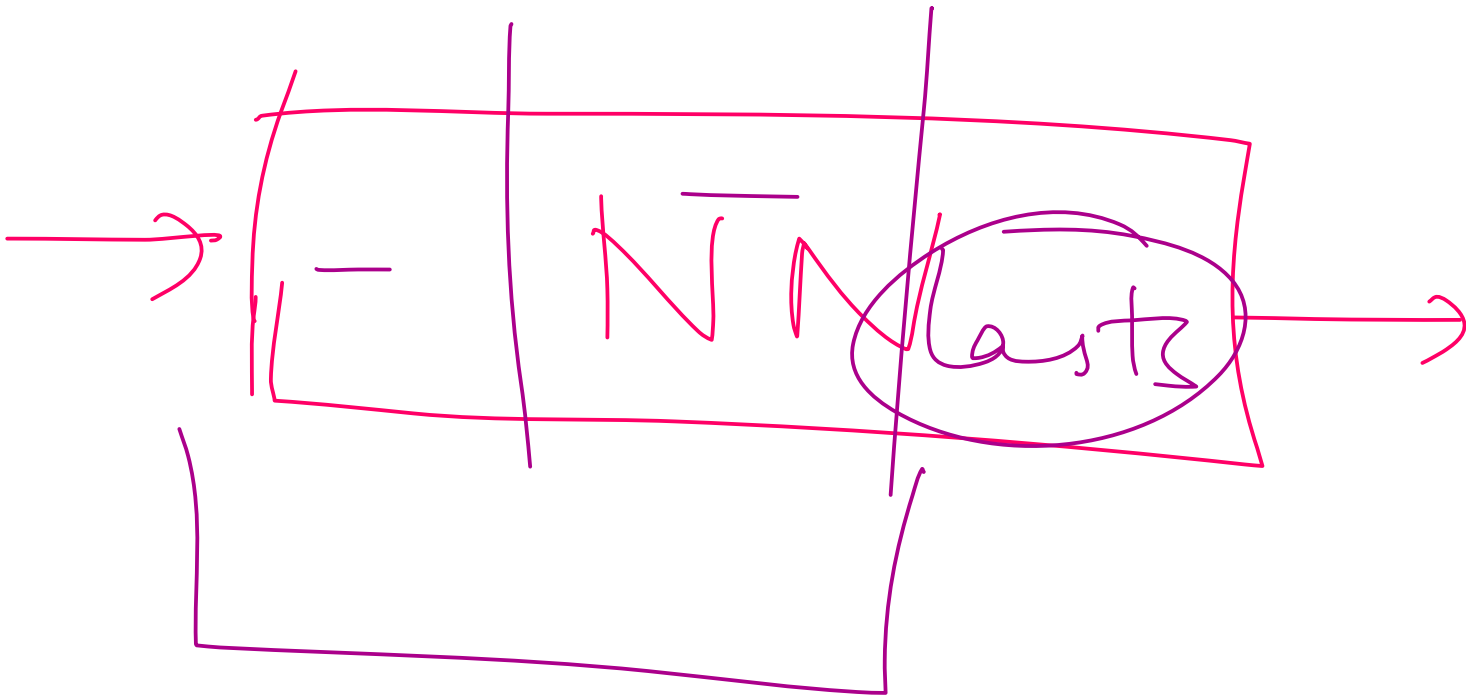
forms



task-feed



re-trained  
↑  
tunes



dog

cat

- training time  $n^3$
- NN performance
- Large amount  
data isn't used

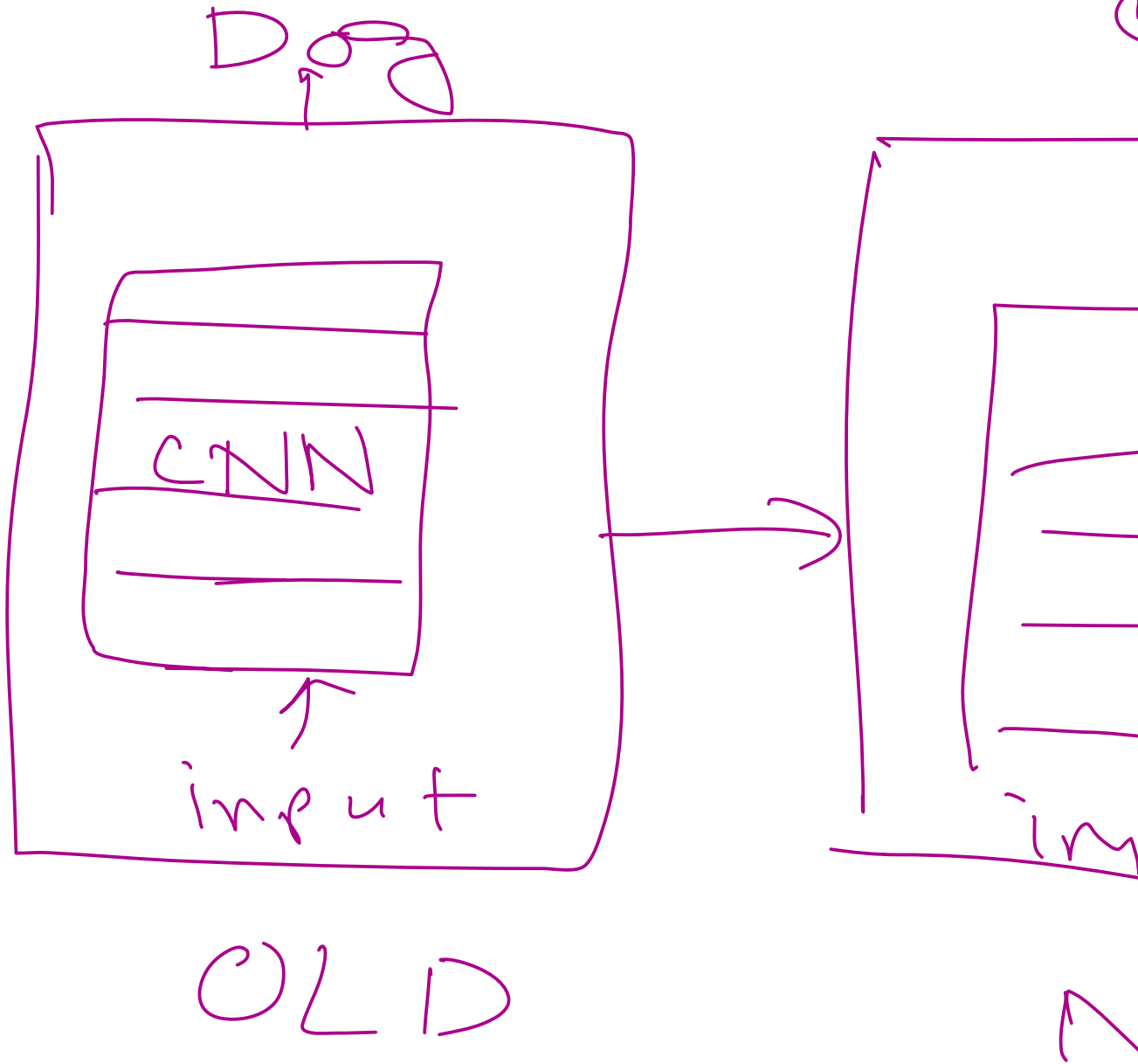
reduced

ce

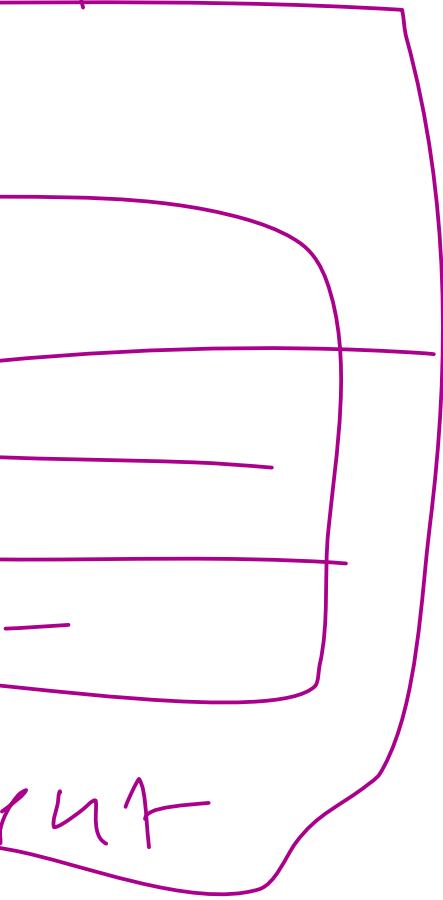
- of

needed





or I



put

I E W

Steps | - pre-trained  
- Enough data

① Training model to

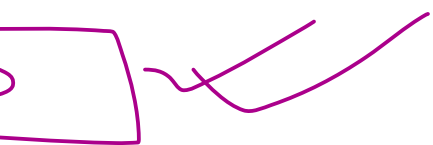
✓  
A ← B

② Using a pre-trained

ed model

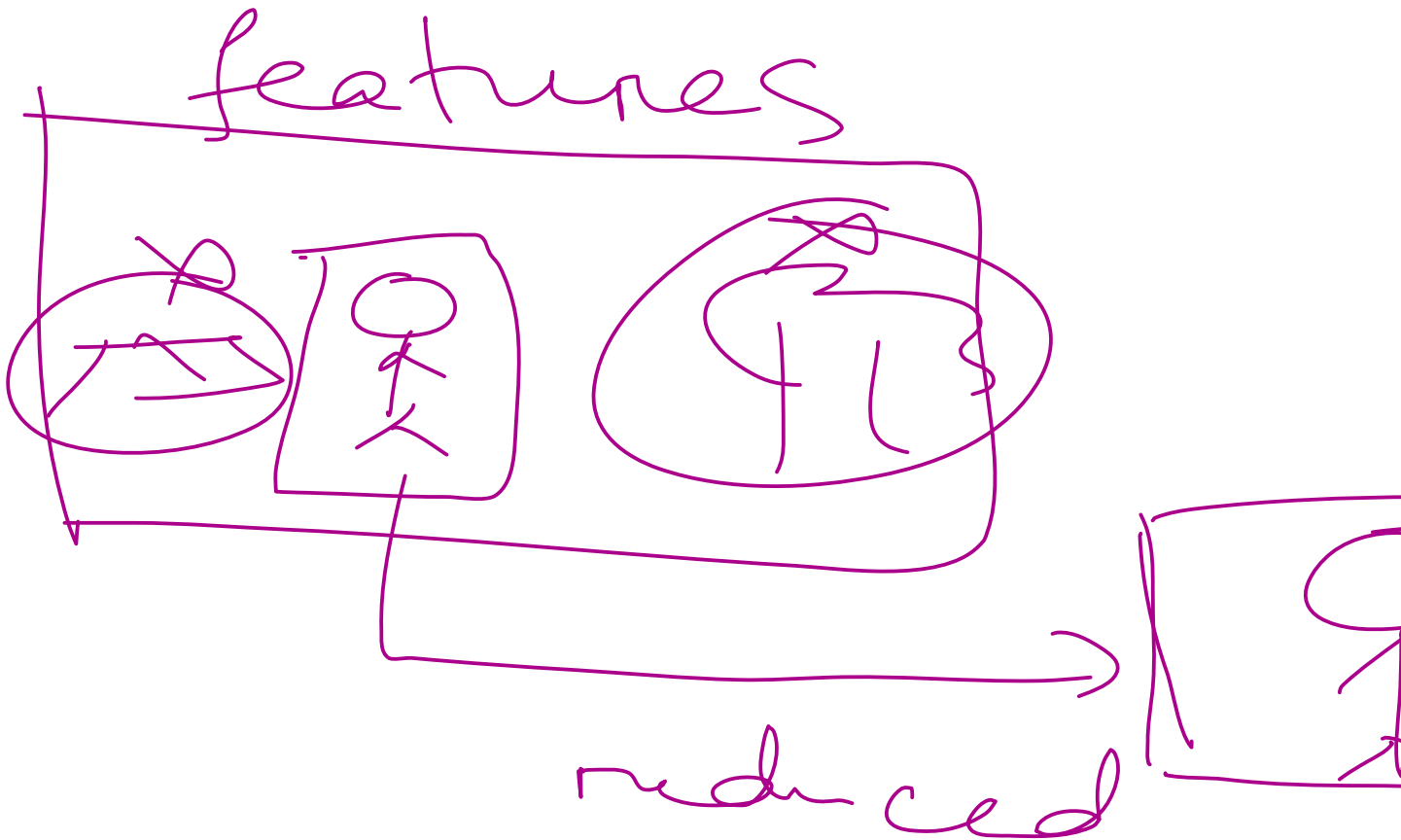
ate

o reuse it



ed modl

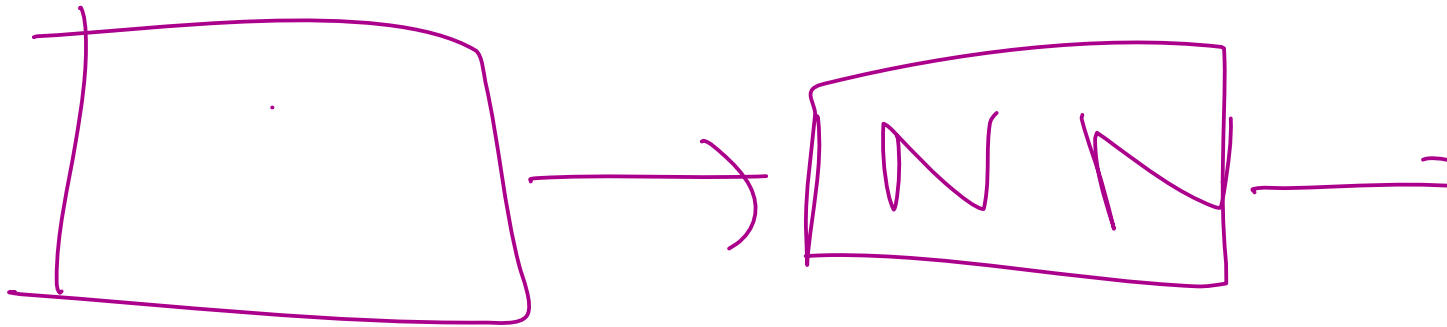
# ③ Extraction of features



atures



④ Extraction wei



th NW

