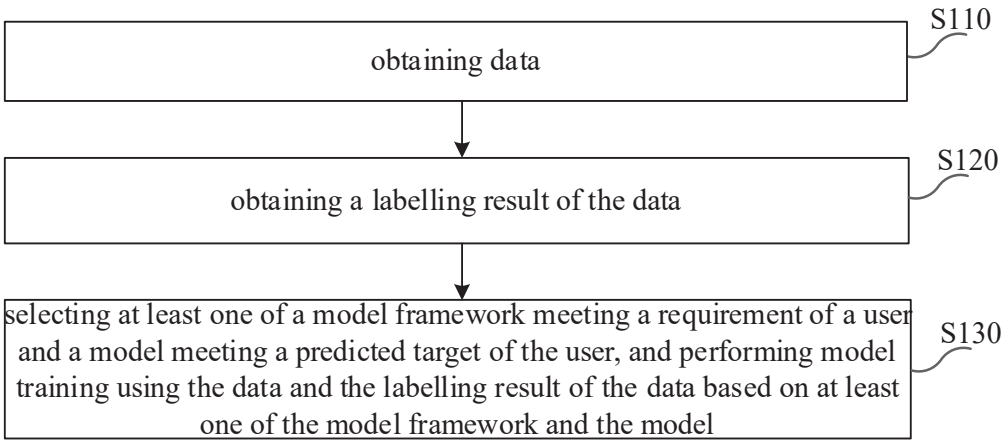

obtaining data
S110
obtaining a labelling result of the data
S120
selecting at least one of a model framework meeting a requirement of a user and a model meeting a predicted target of the user, and performing model training using the data and the labelling result of the data based on at least one of the model framework and the model
S130

FIG. 1

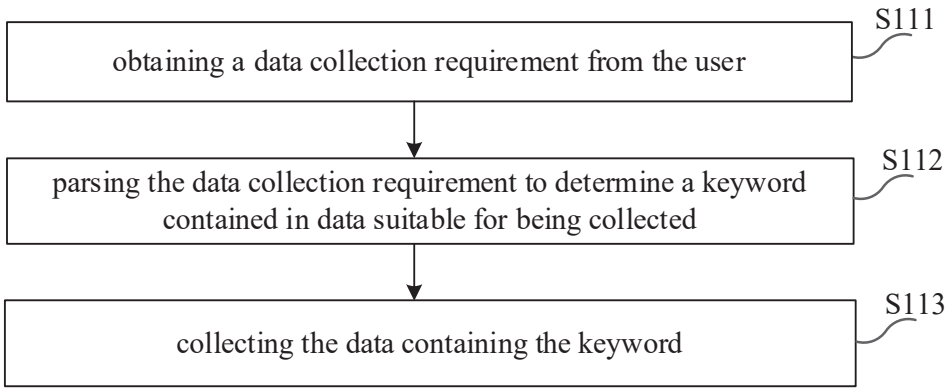

obtaining a data collection requirement from the user
S111
parsing the data collection requirement to determine a keyword contained in data suitable for being collected
S112
collecting the data containing the keyword
S113

FIG. 2

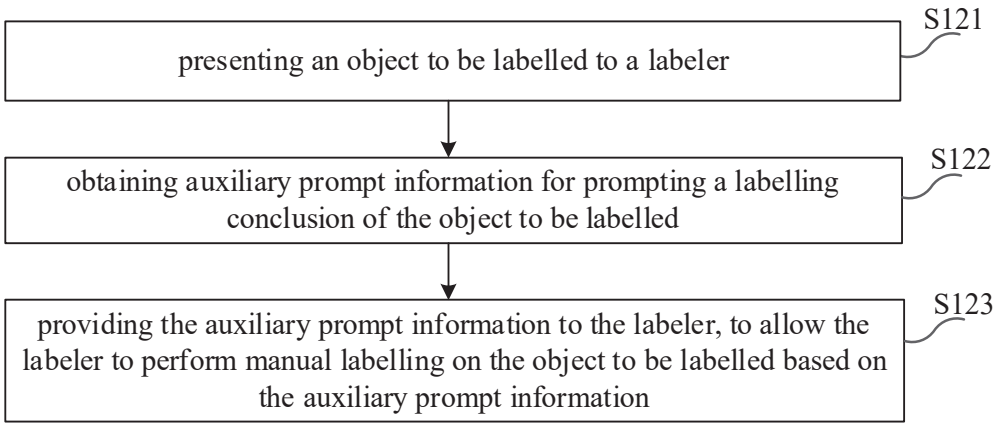

S121
presenting an object to be labelled to a labeler
S122
obtaining auxiliary prompt information for prompting a labelling conclusion of the object to be labelled
S123
providing the auxiliary prompt information to the labeler, to allow the labeler to perform manual labelling on the object to be labelled based on the auxiliary prompt information

FIG. 3


Happy Farm Phase 1: labelling pig faces
see labelling explanation
Number of labelling for current task: 233
today labelling: 17
choose label
domestic pig
black pig
domestic pig
black pig
domestic pig
black pig
domestic pig
black pig
domestic pig
black pig
domestic pig
black pig
domestic pig
black pig
domestic pig
black pig
domestic pig
black pig
domestic pig
black pig
+adding label
frame
select
undo
redo
delete
zoom in
zoom out
move pic
shortcut keys
error occurs in question, skip
submit

FIG. 4

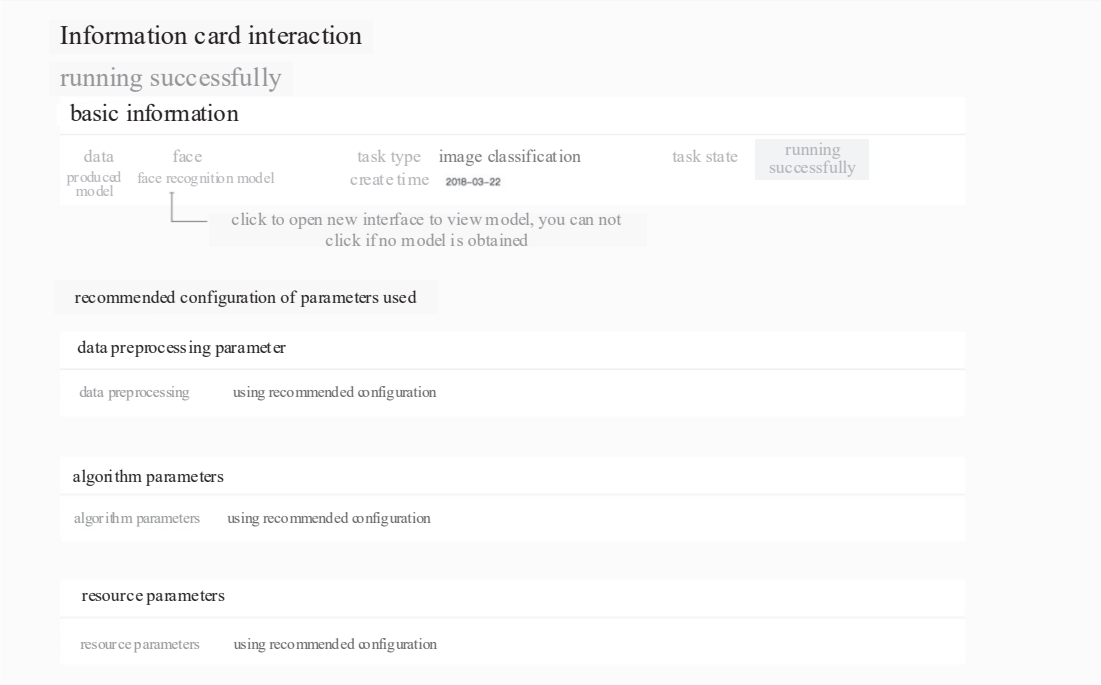

Information card interaction
running successfully
basic information
data produced model
face
face recognition model
task type
image classification
create time
2018-03-22
task state
running successfully
click to open new interface to view model, you can not click if no model is obtained
recommended configuration of parameters used
data preprocessing parameter
data preprocessing
using recommended configuration
algorithm parameters
algorithm parameters
using recommended configuration
resource parameters
resource parameters
using recommended configuration

FIG. 5

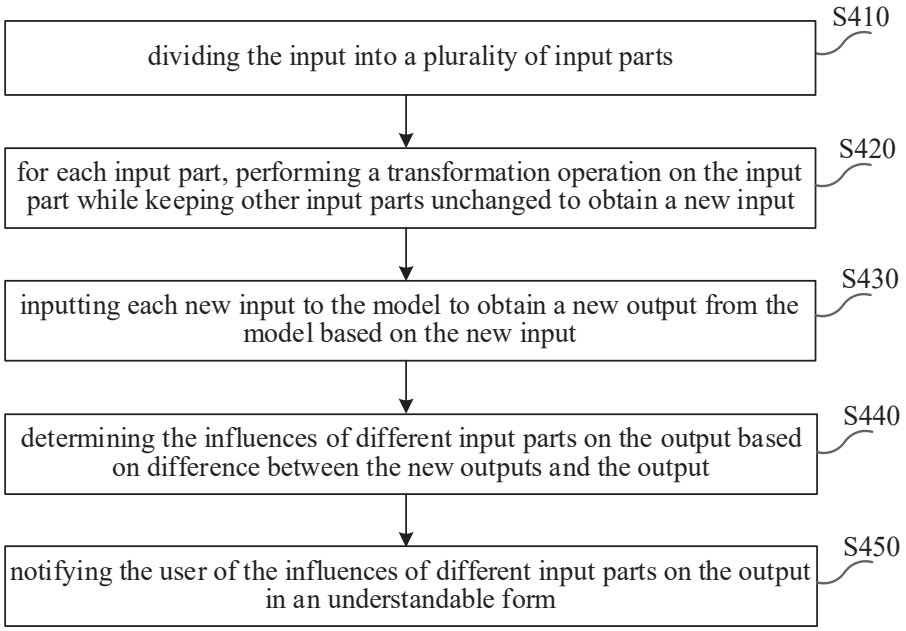

S410
dividing the input into a plurality of input parts
S420
for each input part, performing a transformation operation on the input part while keeping other input parts unchanged to obtain a new input
S430
inputting each new input to the model to obtain a new output from the model based on the new input
S440
determining the influences of different input parts on the output based on difference between the new outputs and the output
S450
notifying the user of the influences of different input parts on the output in an understandable form

FIG. 6

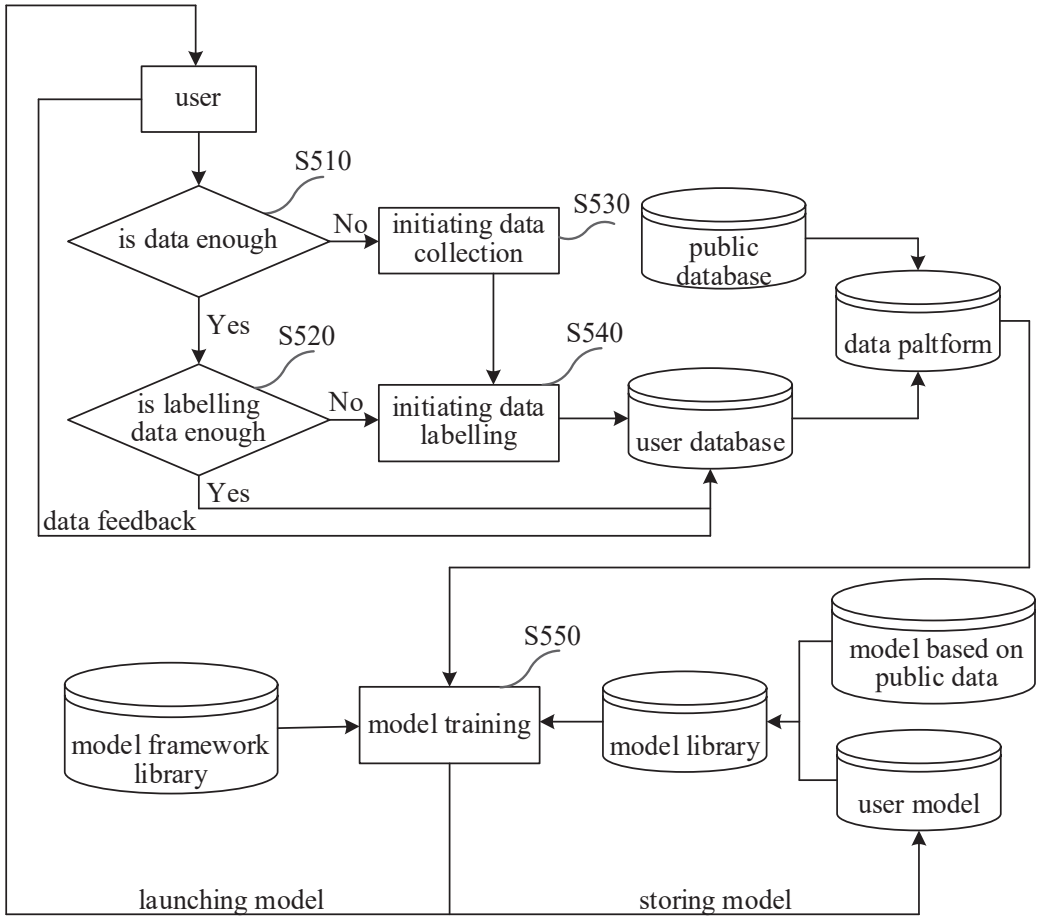

user
S510
is data enough
No
initiating data collection
S530
public database
Yes
S520
S540
data paltform
is labelling data enough
No
initiating data labelling
user database
Yes
data feedback
S550
model based on public data
model framework library
model training
model library
user model
launching model
storing model

FIG. 7

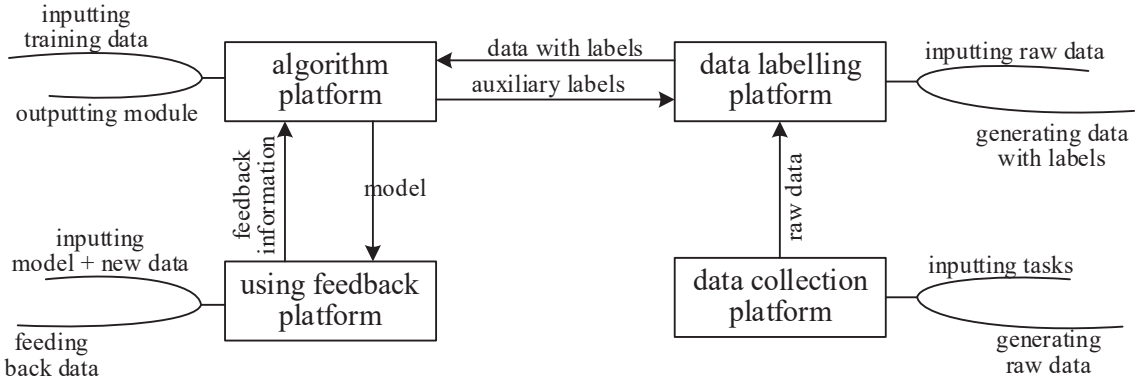

inputting training data
outputting module
algorithm platform
data with labels
auxiliary labels
data labelling platform
inputting raw data
generating data with labels
feedback information
model
raw data
inputting model + new data
feeding back data
using feedback platform
data collection platform
inputting tasks
generating raw data

FIG. 8

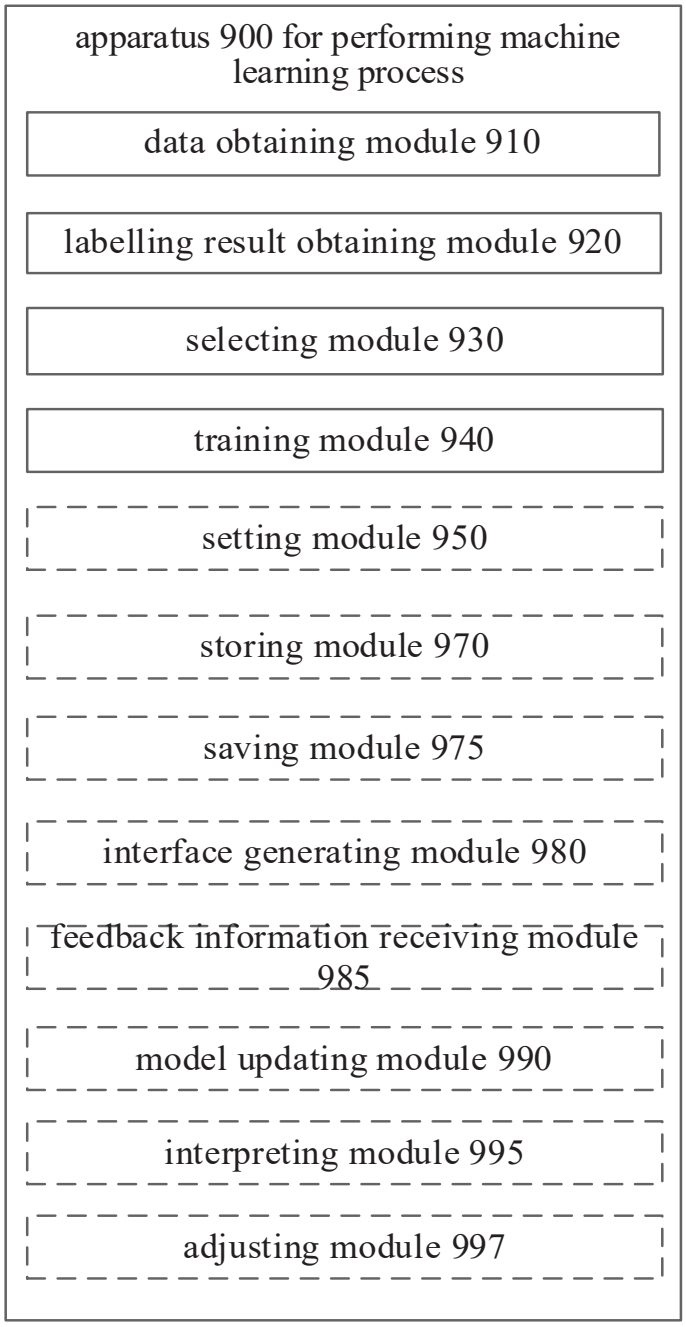

apparatus 900 for performing machine learning process
data obtaining module 910
labelling result obtaining module 920
selecting module 930
training module 940
setting module 950
storing module 970
saving module 975
interface generating module 980
feedback information receiving module 985
model updating module 990
interpreting module 995
adjusting module 997

FIG. 9

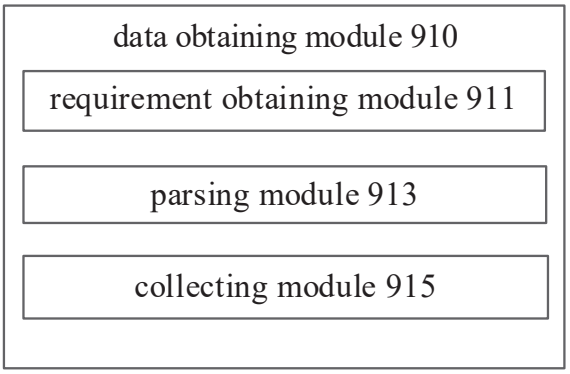

data obtaining module 910
requirement obtaining module 911
parsing module 913
collecting module 915

FIG. 10

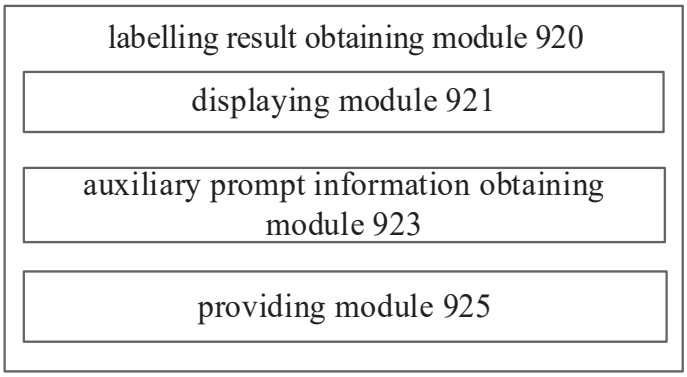

labelling result obtaining module 920
displaying module 921
auxiliary prompt information obtaining module 923
providing module 925

FIG. 11

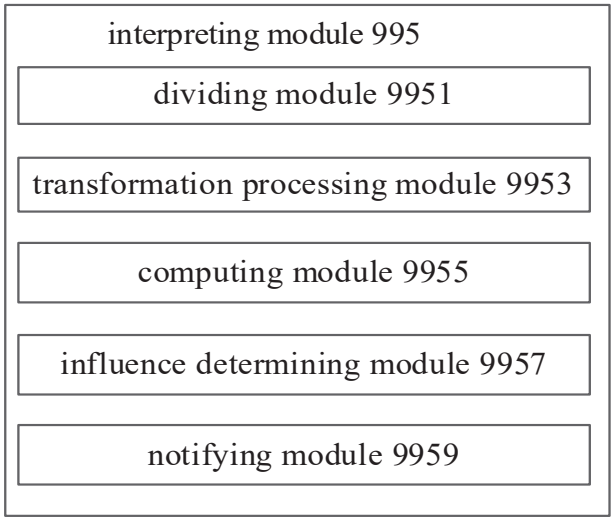

interpreting module 995
dividing module 9951
transformation processing module 9953
computing module 9955
influence determining module 9957
notifying module 9959

FIG. 12

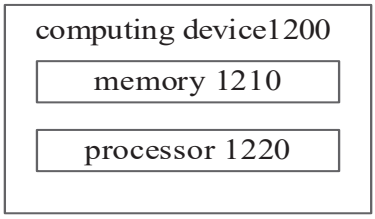

computing device1200
memory 1210
processor 1220

FIG. 13