```
Neural_Network
  - input len
  - hidden len
  output_len
  - AV

    dataset_size

    error

  minimum_error
   learning_rate
  - momentum
  - input
  and 17 more...
  + Neural_Network()
  + set_input_len()
  + set_output_len()
  + set_hidden_len()
  + set_AV()
  + set minimum error()
  + set learning rate()
  + get_input_len()
  + get_output_len()
  + get_hidden_len()
  + do_function()
  - init()
  - train()
  test()

    segmoidal_

               fn()
  propagate()
  - cal_error()
  back_propagate()
  - input absent()
  - calculate_net()
               n
       File_Manager
- write

    read

read_ex_output_string
input_population_string
- output_population_string
input_file
 expected_
           _out_file
output_file
weights_file
rank_output_strings
+ File_Manager()
+ set_input_file()
+ set_expected_
                 out file()
+ set_output_file()
+ set_weights_file()
+ set_rank_output_strings()
+ get_read_ex_output
_string()
+ get_input_population
_string()
+ get_output_population
_string()
+ get_rank_output_strings()
+ do_function()
+ fill_rank_output()
- read_input()
read_expected_output()
read_weights()
write_output()
write_weights()
- convertInt()
```