Tugas Besar B

IF3270 Pembelajaran Mesin Backward Propagation - Mini Batch Gradient Descent

Developed by:

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Main Program

Library

```
In [28]: import sys
     !{sys.executable} -m pip install networkx
     !{sys.executable} -m pip install numpy
     !{sys.executable} -m pip install scikit-learn scipy matplotlib numpy
```

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         es (from matplotlib) (4.29.1)
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         r \ge 0.10 - matplotlib) (1.16.0)
In [29]:
         import json, math, os
         import networkx as nx
         import matplotlib.pyplot as plt
         from enum import Enum
         import numpy as np
         import random
```

Requirement already satisfied: scipy in c:\python310\lib\site-packages (1.8.0)

Enum

```
In [30]: class LayerEnum(Enum):
    INPUT = "input"
    HIDDEN = "hidden"
    OUTPUT = "output"

class ActivationFuncEnum(Enum):
    SIGMOID = "sigmoid"
    LINEAR = "linear"
    RELU = "relu"
    SOFTMAX = "softmax"
```

File Utility

Layer

```
In [32]: class Layer:
             # Layer adalah kelas yang menyimpan sejumlah neutron berikut fungsi aktivas
         inya
             def __init__(self, neurons: list, type: str, activation_func: str):
                 self.__neurons = neurons
                  self.__type = type
                  self.__activation_func = activation_func
             def display(self):
                 print("Layer Type: " + self.__type)
                 print("Neurons: ")
                 for neuron in self.__neurons:
                      neuron.display()
             def add_neuron(self, neuron):
                  self.__neurons.append(neuron)
             def get_neurons(self):
                  return self.__neurons
             def get_type(self):
                  return self.__type
             def get_activation_func(self):
                  return self.__activation_func
```

```
In [33]: class Neuron:
             def __init__(
                 self,
                 layer: Layer,
                 weight: list,
              ):
                 self.__layer: Layer = layer
                  self.__weight: list = weight
                 # __temp_weight digunakan untuk menyimpan cummulative perubahan __weigh
         t (saat mini-batch)
                  self.__temp_weight: list = self.__weight[:]
                  self.\_net: float = 0.0
                  self.__value: float = 0.0
                  self.__error_term = 0.0
             def activate(self):
                 if self.__layer.get_activation_func() == ActivationFuncEnum.SIGMOID.val
         ue:
                      self.\_value = 1 / (1 + math.exp(-self.\_net))
                 elif self.__layer.get_activation_func() == ActivationFuncEnum.LINEAR.va
         lue:
                      self.__value = self.__net
                 elif self.__layer.get_activation_func() == ActivationFuncEnum.RELU.valu
         e:
                      self.__value = max(0, self.__net)
                 elif self.__layer.get_activation_func() == ActivationFuncEnum.SOFTMAX.v
         alue:
                      try:
                          layer_neurons: list = self.__layer.get_neurons()
                          exp_sum: float = 0.0
                          for neuron in layer_neurons:
                              exp_sum += math.exp(neuron.get_net())
                          self.__value = math.exp(self.__net) / exp_sum
                      except Exception as e:
                          self.\_value = 0.0
             def set_value(self, value):
                 self.__value = value
             def set_net(self, net):
                  self.\_net = net
             def set_weight(self, index, weight):
                  self.__weight[index] = weight
             def set_temp_weight(self, index, weight):
                  self.__temp_weight[index] = weight
             def set_error_term(self, error_term):
                  self.__error_term = error_term
             def get_value(self):
                  return self.__value
```

```
def get_net(self):
    return self.__net

def get_weight(self, index):
    return self.__weight[index]

def get_weights(self):
    return self.__weight

def get_temp_weight(self, index):
    return self.__temp_weight[index]

def get_temp_weights(self):
    return self.__temp_weight

def get_error_term(self):
    return self.__error_term
```

```
In [34]: class ANNGraph:
             def __init__(self, file_config_path: str):
                 # Set file
                 self.file_path = file_config_path
                 self.config = None
                 # Inisialisasi layers
                 self.layers: list[Layer] = []
                 # Buat graf ANN --> pengisian self.layers
                 self.__build_ann_graph()
             def __build_ann_graph(self):
                 # Baca . ison, masukkan ke config
                 self.config = FileUtility.import_json(self.file_path)
                 # Baca input pertama: input layer
                 input_layer = Layer([], LayerEnum.INPUT.value, "")
                 ## Masukkan neuron. Untuk input layer, weightnya dikosongkan karena tid
         ak digunakan dalam kalkulasi
                 input_size = self.config["case"]["model"]["input_size"]
                 for i in range(input_size):
                     neuron = self.__generate_neuron_data(input_layer, {"weights": []})
                     input_layer.add_neuron(neuron)
                 ## Input layer masuk ke dalam self.layers
                 self.layers.append(input_layer)
                 # Baca layer-layer selanjutnya
                 layers = self.config["case"]["model"]["layers"]
                 ## Proses setiap layer
                 for i, layer in enumerate(layers):
                     # By default, dia HIDDEN kecuali merupakan layer terakhir
                     layer_type = LayerEnum.HIDDEN.value
                     if i == len(layers) - 1:
                         layer_type = LayerEnum.OUTPUT.value
                     # Inisialisasi instance layer
                     curr_layer = Layer([], layer_type, layer["activation_function"])
                     # Memasukkan neuron ke curr_layer
                     layer_weights = self.config["case"]["initial_weights"][i]
                     ## Proses untuk setiap layer_weight
                     for j in range(layer["number_of_neurons"]):
                         neuron_weights = []
                         # Weight di layout secara vertikal
                         for k in range(len(layer_weights)):
                              neuron_weights.append(layer_weights[k][j])
                         neuron = self.__generate_neuron_data(curr_layer, {"weights": ne
         uron_weights})
                         curr_layer.add_neuron(neuron)
                     # Masukkan curr_layer ke self.layers
                     self.layers.append(curr_layer)
```

return

```
def __generate_neuron_data(self, layer: Layer, neuron_data):
        # Fungsi ini membuat suatu instance Neuron berdasarkan data yang diberi
kan pada layer yang diberikan
        weights: list = []
        if (layer.get_type() == LayerEnum.HIDDEN.value or layer.get_type() == L
ayerEnum.OUTPUT.value):
            weights = neuron_data["weights"]
        return Neuron(layer, weights)
    def __forward_propagation(self, input_data: list[float]):
        # Melakukan proses feed forward berdasarkan input_data
        # print(f"forward propagation: {input_data}")
        # Masukkan dulu data input ke neuron di layer input
        for i in range(len(input_data)):
            # neuron adalah neuron ke-i di input layer (layers[0])
            neuron: Neuron = self.layers[0].get_neurons()[i]
            neuron.set_value(input_data[i])
        # Lakukan proses feed forward: menghitung nilai output di setiap unit
(dalam kasus ini menghitung setiap value di setiap neuron)
        for i, layer in enumerate(self.layers):
            # Jika layer merupakan input layer, tidak perlu diproses
            if layer.get_type() == LayerEnum.INPUT.value:
                continue
            previous_layer = self.layers[i - 1]
            # Hitung dulu masing-masing netnya, baru dihitung valuenya
            for neuron in layer.get_neurons():
                # print(neuron.get_weights())
                # Hitung net
                total = neuron.get_weight(0)
                previous_neurons: list[Neuron] = previous_layer.get_neurons()
                for i, prev_neuron in enumerate(previous_neurons):
                    # i + 1 karena .get_weight(0) adalah bias
                    total += prev_neuron.get_value() * neuron.get_weight(i + 1)
                neuron.set_net(total)
                # print(f">> {total}")
            for neuron in layer.get_neurons():
                neuron.activate()
        return
    def __backward_propagation(self, target_data: list[float], update = False):
        # Melakukan proses backward propagation berdasarkan target_data
        # Hitung nilai error term untuk setiap neuron di layer output
        output_layer: Layer = self.layers[len(self.layers) - 1]
        output_neurons: list[Neuron] = output_layer.get_neurons()
        ## Assign error_term dari setiap output_neuron
        for j, output_neuron in enumerate(output_neurons):
            # Kalkulasi chain rule dengan tujuan mencari ded_dnetj
            ded_dnetj = 0.0
```

Turunan terhadap oj

```
oj = output_neuron.get_value()
            ded_doj = -1 * (target_data[j] - oj)
            ## Turunan terhadap netj
            doj_dnetj = 0.0
            activation_func = output_layer.get_activation_func()
            if activation_func == ActivationFuncEnum.LINEAR.value:
                doj_dnetj = 1.0
            elif activation_func == ActivationFuncEnum.RELU.value:
                net = output_neuron.get_net()
                if net < 0.0:
                    doj_dnetj = 0.0
                else:
                    doj_dnetj = 1.0
            elif activation_func == ActivationFuncEnum.SIGMOID.value:
                doj_dnetj = oj * (1 - oj)
            elif activation_func == ActivationFuncEnum.SOFTMAX.value:
                # Cek apakah j targetClass
                if target_data[j] == 1.0:
                    ded_dnetj = -1 * (1 - oj)
                else:
                    ded_dnetj = oj
            if activation_func != ActivationFuncEnum.SOFTMAX.value:
                ded_dnetj = ded_doj * doj_dnetj
            ## Set error term = -1 * ded_doj * doj_dnetj atau -1 * ded_dnetj
            output_neuron.set_error_term(-1 * ded_dnetj)
            pass
        # Hitung nilai error term untuk setiap neuron di layer hidden
        for i in range(len(self.layers) - 2, -1, -1):
            curr_layer: Layer = self.layers[i]
            # Jika ini layer input, pemrosesan selesai
            if curr_layer.get_type() == LayerEnum.INPUT.value:
                break
            curr_neurons: list[Neuron] = curr_layer.get_neurons()
            ## Dalam menghitung de_dneth di tahap selanjutnya, perlu data next
layer
            next_layer: Layer = self.layers[i + 1]
            next_neurons: list[Neuron] = next_layer.get_neurons()
            for h, hidden_neuron in enumerate(curr_neurons):
                # Kalkulasi chain rule
                oh = hidden_neuron.get_value()
                # Turunan terhadap net, akan dihitung untuk set error term
                ded_dneth = 0.0
                ## Menghitung doh_dneth, dipakai saat menghitung ded_dneth
                doh dneth = 0.0
                activation_func = curr_layer.get_activation_func()
                if activation_func == ActivationFuncEnum.LINEAR.value:
                    doh_dneth = 1.0
                elif activation_func == ActivationFuncEnum.RELU.value:
                    net = hidden_neuron.get_net()
                    if net < 0.0:
                        doh_dneth = 0.0
                    else:
                        doh_dneth = 1.0
```

```
elif activation_func == ActivationFuncEnum.SIGMOID.value:
                    doh_dneth = oh * (1 - oh)
                elif activation_func == ActivationFuncEnum.SOFTMAX.value:
                    # Tidak mungkin target class
                    doh_dneth = oh
                for next_neuron in next_neurons:
                    # Hitung nilai dari ded_dnetk * dnetk_doh * doh_dneth
                    ded_dnetk = -1 * next_neuron.get_error_term()
                    dnetk_doh = next_neuron.get_weight(h + 1)
                    ded_dneth += ded_dnetk * dnetk_doh * doh_dneth
                # print(f'hidden: ded_neth = {ded_dneth}')
                # Set error term = -1 * ded_dneth
                hidden_neuron.set_error_term(-1 * ded_dneth)
        # Update bobot!
        learning_rate = self.config["case"]["learning_parameters"]["learning_ra
te"]
        for i in range(len(self.layers) - 1, -1, -1):
            curr_layer: Layer = self.layers[i]
            # Jika ini layer input, pemrosesan selesai
            if curr_layer.get_type() == LayerEnum.INPUT.value:
                break
            curr_neurons: list[Neuron] = curr_layer.get_neurons()
            # Data previous layer dibutuhkan untuk mendapatkan nilai xji
            prev_layer: Layer = self.layers[i - 1]
            prev_neurons: list[Neuron] = prev_layer.get_neurons()
            for j, neuron in enumerate(curr_neurons):
                weights: list[float] = neuron.get_weights()
                # print(f"Update neuron ke-{i}")
                for k in range(len(weights)):
                    # Default case, untuk bias, xji = 1
                    xji = 1
                    if k != 0:
                        # Bukan bias
                        xji = prev_neurons[k - 1].get_value()
                    delta = learning_rate * neuron.get_error_term() * xji
                    # print(f"delta untuk weight ke-{k}:", delta)
                    # print(f"{learning_rate} >< {neuron.get_error_term()} ><</pre>
{xji}")
                    # print(f"Melakukan update weight dari {weight} menjadi {we
ight + delta}")
                    neuron.set_temp_weight(k, neuron.get_temp_weight(k) + delt
a)
                    if update:
                        # print("Update bosku!")
                        neuron.set_weight(k, neuron.get_temp_weight(k))
```

return

```
def __train(self):
        # Melakukan pelatihan sampai terminasi tercapai
        iter = 1
        # Ambil nilai-nilai dari config
        max_iteration = self.config["case"]["learning_parameters"]["max_iterati
on"]
        batch_size = self.config["case"]["learning_parameters"]["batch_size"]
        error_threshold = self.config["case"]["learning_parameters"]["error_thr
eshold"]
        inputs = len(self.config["case"]["input"])
        # Mulai pemrosesan dari pasangan (x, t) pertama
        index = 0
        processed = 0
        error = 0.0
        self.sum_delta_weight = 0
        while True:
            processed += 1
            input_vector = self.config["case"]["input"][index]
            target_vector = self.config["case"]["target"][index]
            self.__forward_propagation(input_vector)
            # Jika processed % batch_size == 0, artinya mini-batch selesai dipr
oses, lakukan update bobot.
            # print(f"processed: {processed} || batch_size: {batch_size}")
            self.__backward_propagation(target_vector, processed % batch_size =
= 0)
            index += 1
            # Hitung error
            output_layer: Layer = self.layers[len(self.layers) - 1]
            output_neurons: list[Neuron] = output_layer.get_neurons()
            if output_layer.get_activation_func() != ActivationFuncEnum.SOFTMA
X.value:
                # Jika bukan softmax,
                for i, neuron in enumerate(output_neurons):
                    error += ((target_vector[i] - neuron.get_value()) ** 2) / 2
            else:
                # Jika softmax,
                for i, neuron in enumerate(output_neurons):
                    if target_vector[i] == 1.0:
                        error += -1 * np.log(neuron.get_value())
            if index >= inputs:
                print(f"Epoch: {iter} || Error: {error}")
                # Kondisi akhir #1: Error <= error_threshold</pre>
                if error <= error_threshold:</pre>
                    print("Error <= error threshold!")</pre>
                    break
                # Kondisi akhir #2: Mencapai maksimum iterasi
                if iter >= max_iteration:
                    print("Max iteration reached!")
                    break
                # Reset error, mulai epoch baru
                iter += 1
```

```
error = 0.0
                index = 0
                processed = 0
    def show_weights(self):
        # Cetak weight dengan format yang sama dengan final_weights
        weights = []
        for layer in self.layers:
            # Tidak perlu cetak weight dari input layer
            if layer.get_type() == LayerEnum.INPUT.value:
                continue
            layer_weight = []
            for i in range(len(layer.get_neurons()[0].get_weights())):
                level_weight = []
                for neuron in layer.get_neurons():
                    level_weight.append(neuron.get_weight(i))
                layer_weight.append(np.array(level_weight, dtype=object))
            weights.append(np.array(layer_weight, dtype=object))
        print("\nTrained weights:")
        print(np.array(weights, dtype=object))
        if "expect" in self.config and "final_weights" in self.config["expec
t"]:
            # Hitung SSE
            sse = 0.0
            for i, _ in enumerate(self.config["expect"]["final_weights"]):
                for j, _ in enumerate(self.config["expect"]["final_weights"]
[i]):
                    for k, weight in enumerate(self.config["expect"]["final_wei
ghts"][i][j]):
                        sse += (weight - weights[i][j][k]) ** 2
            print(f"\nSSE compared to final_weights: {sse}")
    def draw_ann_graph(self, figsize=(6, 6)):
        # Terminologies:
        # Xi = neuron ke-i di input layer
        # Hij = neuron ke-j di hidden layer ke-i
        # Oi = neuron ke-i di output layer
        G = nx.DiGraph()
        # Proses setiap layer
        for i, layer in enumerate(self.layers):
            if i == 0:
                continue
            prev_layer = self.layers[i - 1]
            prev_prefix = ""
            prefix = ""
            if prev_layer.get_type() == LayerEnum.INPUT.value:
                prev_prefix = "X"
            elif prev_layer.get_type() == LayerEnum.HIDDEN.value:
                prev_prefix = f"H{i - 1}"
            else:
                prev_prefix = "0"
            if layer.get_type() == LayerEnum.INPUT.value:
                prefix = "X"
```

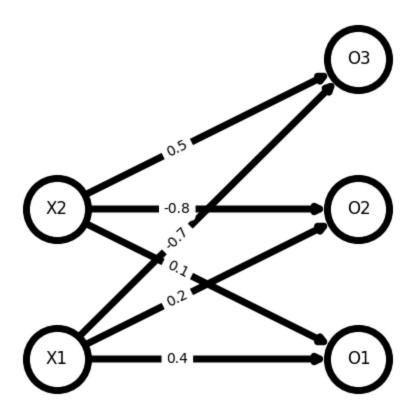
```
elif layer.get_type() == LayerEnum.HIDDEN.value:
                prefix = f"H{i}"
            else:
                prefix = "0"
            # Tambahkan edge dari setiap neuron di prev_layer ke layer
            for j, _ in enumerate(prev_layer.get_neurons()):
                for k, neuron in enumerate(layer.get_neurons()):
                    if j == 0:
                        print(f"Bobot bias untuk {prefix}{k + 1} = {neuron.get_
weight(0)}")
                    G.add\_edge(f"{prev\_prefix}{j + 1}", f"{prefix}{k + 1}", wei
ght=neuron.get_weight(j + 1))
        # Set posisi node graph
        pos = \{\}
        curr_x = 0
        for i, layer in enumerate(self.layers):
            curr_y = 0
            prefix = ""
            if layer.get_type() == LayerEnum.INPUT.value:
                prefix = "X"
            elif layer.get_type() == LayerEnum.HIDDEN.value:
                prefix = f"H{i}"
            else:
                prefix = "0"
            for j, _ in enumerate(layer.get_neurons()):
                pos[f"{prefix}{j + 1}"] = (curr_x, curr_y)
                curr_y += 1
            curr_x += 1
        options = {
            "font_size": 12,
            "node_size": 2000,
            "node_color": "white",
            "edgecolors": "black",
            "linewidths": 5,
            "width": 5,
        }
        _, ax = plt.subplots(figsize=figsize)
        nx.draw_networkx(G, pos, **options, ax=ax)
        edge_labels = nx.get_edge_attributes(G, "weight")
        nx.draw_networkx_edge_labels(G, pos, edge_labels, label_pos=0.6)
        ax = plt.qca()
        ax.margins(0.2)
        plt.axis("off")
        plt.show()
    def solve(self):
        self.__train()
    def predict_mlp(self, to_predict):
        # Lakukan forward propagation
        self.__forward_propagation(to_predict)
        # Cari output neuron dengan value tertinggi
        output_idx = None
```

```
max_val = None
        for i, neuron in enumerate(self.layers[len(self.layers) - 1].get_neuron
s()):
            if output_idx == None or neuron.get_value() > max_val:
                output_idx = i
                max_val = neuron.get_value()
        return output_idx
    def save(self, destination):
        # Save model di file
        # initial_weights harus diganti sama weights yang dimiliki sekarang
        weights = []
        for layer in self.layers:
            # Tidak perlu cetak weight dari input layer
            if layer.get_type() == LayerEnum.INPUT.value:
                continue
            layer_weight = []
            for i in range(len(layer.get_neurons()[0].get_weights())):
                level_weight = []
                for neuron in layer.get_neurons():
                    level_weight.append(neuron.get_weight(i))
                layer_weight.append(level_weight)
            weights.append(layer_weight)
        # Buat model baru
        new_model = {
            "case": {
                "model": self.config["case"]["model"],
                "input": self.config["case"]["input"],
                "initial_weights": weights,
                "target": self.config["case"]["target"],
                "learning_parameters": self.config["case"]["learning_parameter
s"]
            }
        }
        jsonString = json.dumps(new_model)
        jsonFile = open(destination, "w")
        jsonFile.write(jsonString)
        jsonFile.close()
```

Testing

```
In [35]: graph = ANNGraph("config/linear_small_lr.json")
    graph.draw_ann_graph()
    graph.solve()
    graph.show_weights()

Bobot bias untuk 01 = 0.1
    Bobot bias untuk 02 = 0.3
    Bobot bias untuk 03 = 0.2
```



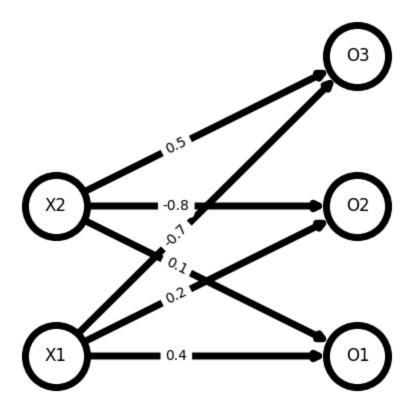
```
Epoch: 1 || Error: 0.665
Max iteration reached!

Trained weights:
[[[0.10120000000000001 0.3006 0.1991]
      [0.40240000000000004 0.201 -0.70189999999999]
      [0.10180000000000002 -0.799 0.4987]]]

SSE compared to final_weights: 9.60000000000327e-07
```

```
In [36]: graph = ANNGraph("config/linear_two_iteration.json")
    graph.draw_ann_graph()
    graph.solve()
    graph.show_weights()
```

```
Bobot bias untuk 01 = 0.1
Bobot bias untuk 02 = 0.3
Bobot bias untuk 03 = 0.2
```



```
Epoch: 1 || Error: 0.665
```

Epoch: 2 || Error: 0.1818500000000002

Max iteration reached!

Trained weights:

```
[[[0.166 0.337999999999999 0.15300000000000008]
```

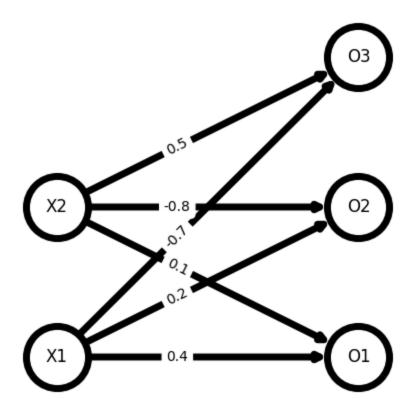
[0.502 0.225999999999995 -0.78899999999999]

[0.214000000000000 -0.718 0.4270000000000005]]]

SSE compared to final_weights: 3.543711097672514e-32

```
In [37]: graph = ANNGraph("config/linear.json")
    graph.draw_ann_graph()
    graph.solve()
    graph.show_weights()
```

```
Bobot bias untuk 01 = 0.1
Bobot bias untuk 02 = 0.3
Bobot bias untuk 03 = 0.2
```



Epoch: 1 || Error: 0.665 Max iteration reached!

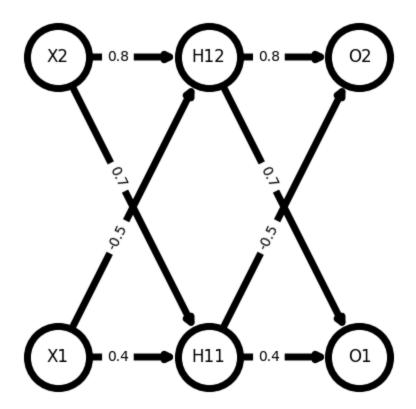
```
Trained weights:
```

[[[0.21999999999997 0.36 0.109999999999999] [0.64 0.30000000000000004 -0.8900000000000001] [0.28 -0.7 0.3699999999999999]]

SSE compared to final_weights: 1.9451892438311082e-32

```
In [38]: graph = ANNGraph("config/mlp.json")
    graph.draw_ann_graph()
    graph.solve()
    graph.show_weights()
```

```
Bobot bias untuk H11 = 0.1
Bobot bias untuk H12 = 0.2
Bobot bias untuk O1 = 0.1
Bobot bias untuk O2 = 0.2
```



```
Epoch: 1 || Error: 0.8185625000000001

Max iteration reached!

Trained weights:

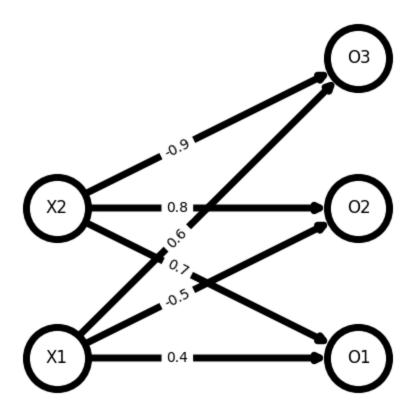
[[[0.07115 0.1403]
        [0.42885 -0.440299999999997]
        [0.6855749999999999 0.77015]]

[[0.0209999999999999 0.1945]
        [0.39605 -0.500275]
        [0.6131 0.79395]]]

SSE compared to final_weights: 0.01901325
```

```
In [39]: graph = ANNGraph("config/relu.json")
    graph.draw_ann_graph()
    graph.solve()
    graph.show_weights()
```

```
Bobot bias untuk 01 = 0.1
Bobot bias untuk 02 = 0.2
Bobot bias untuk 03 = 0.3
```



```
Trained weights:

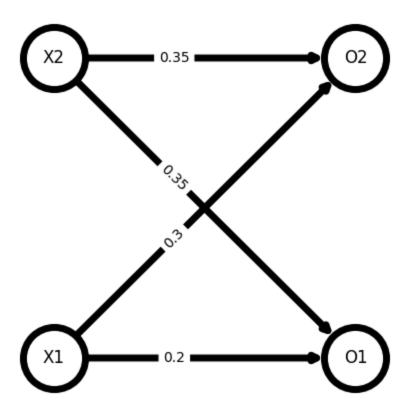
[[[0.1050000000000001 0.19 0.25]

[0.395 -0.49 0.575]

[0.7025 0.795 -0.85]]]
```

SSE compared to final_weights: 1.925929944387236e-34

```
In [40]: graph = ANNGraph("config/sigmoid_mini_batch_GD.json")
   graph.draw_ann_graph()
   graph.solve()
   graph.show_weights()
```



```
Epoch: 1 || Error: 1.0855286440512353
Epoch: 2 || Error: 1.0794460874330905
Epoch: 3 || Error: 1.0734081036395293
Epoch: 4 || Error: 1.0674201849030998
Epoch: 5 || Error: 1.0614876128061133
Epoch: 6 || Error: 1.0556154196513714
Epoch: 7 || Error: 1.0498083527755973
Epoch: 8 || Error: 1.0440708424411773
Epoch: 9 || Error: 1.0384069738568922
Epoch: 10 || Error: 1.0328204637754925
Epoch: 11 || Error: 1.0273146419995067
Epoch: 12 || Error: 1.0218924380015322
Epoch: 13 || Error: 1.016556372736673
Epoch: 14 || Error: 1.0113085555981398
Epoch: 15 || Error: 1.0061506863472651
Epoch: 16 || Error: 1.00108406174076
Epoch: 17 || Error: 0.9961095864845153
Epoch: 18 || Error: 0.9912277880672765
Epoch: 19 || Error: 0.9864388349706118
Epoch: 20 || Error: 0.9817425577143316
Epoch: 21 || Error: 0.9771384721783867
Epoch: 22 || Error: 0.9726258046420584
Epoch: 23 || Error: 0.9682035179969657
Epoch: 24 || Error: 0.9638703386196574
Epoch: 25 || Error: 0.9596247834296524
Epoch: 26 || Error: 0.9554651867069217
Epoch: 27 || Error: 0.9513897262962865
Epoch: 28 || Error: 0.9473964488824722
Epoch: 29 || Error: 0.9434832940763833
Epoch: 30 || Error: 0.9396481171086276
Epoch: 31 || Error: 0.935888709978904
Epoch: 32 || Error: 0.932202820958402
Epoch: 33 || Error: 0.928588172386054
Epoch: 34 || Error: 0.925042476737867
Epoch: 35 || Error: 0.921563450981397
Epoch: 36 || Error: 0.9181488292548239
Epoch: 37 || Error: 0.9147963739321632
Epoch: 38 || Error: 0.9115038851533552
Epoch: 39 || Error: 0.9082692089106537
Epoch: 40 || Error: 0.9050902437914746
Epoch: 41 || Error: 0.90196494648312
Epoch: 42 || Error: 0.8988913361471106
Epoch: 43 || Error: 0.895867497770743
Epoch: 44 || Error: 0.8928915846013947
Epoch: 45 || Error: 0.8899618197654561
Epoch: 46 || Error: 0.887076497168963
Epoch: 47 || Error: 0.884233981771357
Epoch: 48 || Error: 0.8814327093176018
Epoch: 49 || Error: 0.8786711856073647
Epoch: 50 || Error: 0.8759479853733386
Epoch: 51 || Error: 0.8732617508341671
Epoch: 52 || Error: 0.8706111899809934
Epoch: 53 || Error: 0.8679950746504432
Epoch: 54 || Error: 0.8654122384309697
Epoch: 55 || Error: 0.8628615744439566
Epoch: 56 || Error: 0.8603420330358384
Epoch: 57 || Error: 0.8578526194127533
Epoch: 58 || Error: 0.8553923912449124
Epoch: 59 || Error: 0.8529604562639331
Epoch: 60 || Error: 0.8505559698728248
Epoch: 61 || Error: 0.8481781327851354
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Epoch: 62 || Error: 0.8458261887069252
Epoch: 63 || Error: 0.8434994220727149
Epoch: 64 || Error: 0.8411971558443397
Epoch: 65 || Error: 0.838918749379696
Epoch: 66 || Error: 0.8366635963766739
Epoch: 67 || Error: 0.8344311228961021
Epoch: 68 || Error: 0.8322207854662714
Epoch: 69 || Error: 0.8300320692705232
Epoch: 70 || Error: 0.8278644864184739
Epoch: 71 || Error: 0.825717574300683
Epoch: 72 || Error: 0.8235908940259218
Epoch: 73 || Error: 0.8214840289396806
Epoch: 74 || Error: 0.8193965832221222
Epoch: 75 || Error: 0.8173281805633401
Epoch: 76 || Error: 0.8152784629135243
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Epoch: 78 || Error: 0.81123373474635
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Epoch: 80 || Error: 0.8072598564933554
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Epoch: 9793 || Error: 0.3822828451546254
Epoch: 9794 || Error: 0.3822767584829522
Epoch: 9795 || Error: 0.3822706722778485
```

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Epoch: 9796 || Error: 0.3822645865392713
Epoch: 9797 || Error: 0.3822585012671767
Epoch: 9798 || Error: 0.3822524164615214
Epoch: 9799 || Error: 0.3822463321222623
Epoch: 9800 || Error: 0.3822402482493554
Epoch: 9801 || Error: 0.38223416484275785
Epoch: 9802 || Error: 0.3822280819024262
Epoch: 9803 || Error: 0.3822219994283167
Epoch: 9804 || Error: 0.3822159174203863
Epoch: 9805 || Error: 0.38220983587859125
Epoch: 9806 || Error: 0.38220375480288865
Epoch: 9807 || Error: 0.3821976741932348
Epoch: 9808 || Error: 0.38219159404958636
Epoch: 9809 || Error: 0.3821855143719
Epoch: 9810 || Error: 0.38217943516013253
Epoch: 9811 || Error: 0.38217335641424044
Epoch: 9812 || Error: 0.38216727813418017
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Epoch: 9814 || Error: 0.3821551229713827
Epoch: 9815 || Error: 0.3821490460885587
Epoch: 9816 || Error: 0.3821429696713932
Epoch: 9817 || Error: 0.3821368937198433
Epoch: 9818 || Error: 0.38213081823386524
Epoch: 9819 || Error: 0.3821247432134161
Epoch: 9820 || Error: 0.3821186686584523
Epoch: 9821 || Error: 0.3821125945689306
Epoch: 9822 || Error: 0.3821065209448078
Epoch: 9823 || Error: 0.38210044778604035
Epoch: 9824 || Error: 0.38209437509258537
Epoch: 9825 || Error: 0.3820883028643992
Epoch: 9826 || Error: 0.3820822311014389
Epoch: 9827 || Error: 0.38207615980366083
Epoch: 9828 || Error: 0.382070088971022
Epoch: 9829 || Error: 0.382064018603479
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Epoch: 9831 || Error: 0.3820518792635077
Epoch: 9832 || Error: 0.3820458102909928
Epoch: 9833 || Error: 0.38203974178340083
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Epoch: 9839 || Error: 0.38200334049880846
Epoch: 9840 || Error: 0.38199727524446625
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Epoch: 9843 || Error: 0.3819790822687295
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Epoch: 9846 || Error: 0.38196089347302054
Epoch: 9847 || Error: 0.3819548314698112
Epoch: 9848 || Error: 0.38194876993087673
Epoch: 9849 || Error: 0.3819427088561737
Epoch: 9850 || Error: 0.38193664824565937
Epoch: 9851 || Error: 0.38193058809929037
Epoch: 9852 || Error: 0.3819245284170238
Epoch: 9853 || Error: 0.38191846919881606
Epoch: 9854 || Error: 0.3819124104446242
Epoch: 9855 || Error: 0.3819063521544052
Epoch: 9856 || Error: 0.381900294328116
Epoch: 9857 || Error: 0.38189423696571323
```

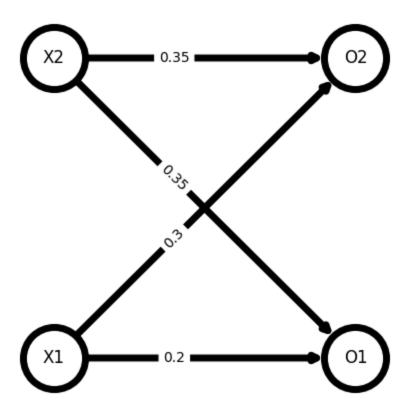
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Epoch: 9859 || Error: 0.38188212363239493
Epoch: 9860 || Error: 0.3818760676613931
Epoch: 9861 || Error: 0.38187001215410543
Epoch: 9862 || Error: 0.38186395711048887
Epoch: 9863 || Error: 0.38185790253050006
Epoch: 9864 || Error: 0.3818518484140963
Epoch: 9865 || Error: 0.3818457947612341
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Epoch: 9867 || Error: 0.38183368884596264
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Epoch: 9869 || Error: 0.3818215847843414
Epoch: 9870 || Error: 0.38181553344854197
Epoch: 9871 || Error: 0.38180948257602576
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Epoch: 9874 || Error: 0.3817913327377471
Epoch: 9875 || Error: 0.38178528371793397
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Epoch: 9897 || Error: 0.3816523223621399
Epoch: 9898 || Error: 0.3816462839820185
Epoch: 9899 || Error: 0.3816402460639768
Epoch: 9900 || Error: 0.3816342086079723
Epoch: 9901 || Error: 0.3816281716139616
Epoch: 9902 || Error: 0.3816221350819023
Epoch: 9903 || Error: 0.38161609901175125
Epoch: 9904 || Error: 0.3816100634034653
Epoch: 9905 || Error: 0.38160402825700224
Epoch: 9906 || Error: 0.38159799357231844
Epoch: 9907 || Error: 0.38159195934937173
Epoch: 9908 || Error: 0.38158592558811866
Epoch: 9909 || Error: 0.3815798922885166
Epoch: 9910 || Error: 0.38157385945052286
Epoch: 9911 || Error: 0.3815678270740943
Epoch: 9912 || Error: 0.3815617951591881
Epoch: 9913 || Error: 0.38155576370576166
Epoch: 9914 || Error: 0.3815497327137719
Epoch: 9915 || Error: 0.381543702183176
Epoch: 9916 || Error: 0.38153767211393125
Epoch: 9917 || Error: 0.381531642505995
Epoch: 9918 || Error: 0.3815256133593237
Epoch: 9919 || Error: 0.38151958467387537
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Epoch: 9920 || Error: 0.38151355644960666
Epoch: 9921 || Error: 0.38150752868647525
Epoch: 9922 || Error: 0.3815015013844378
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Epoch: 9925 || Error: 0.381483422244463
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Epoch: 9927 || Error: 0.38147137178916657
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Epoch: 9929 || Error: 0.3814593231772201
Epoch: 9930 || Error: 0.38145329956239604
Epoch: 9931 || Error: 0.38144727640828124
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Epoch: 9933 || Error: 0.38143523148200853
Epoch: 9934 || Error: 0.381429209709765
Epoch: 9935 || Error: 0.38142318839805966
Epoch: 9936 || Error: 0.3814171675468499
Epoch: 9937 || Error: 0.3814111471560929
Epoch: 9938 || Error: 0.381405127225746
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Epoch: 9940 || Error: 0.38139308874611144
Epoch: 9941 || Error: 0.38138707019673845
Epoch: 9942 || Error: 0.3813810521076045
Epoch: 9943 || Error: 0.38137503447866716
Epoch: 9944 || Error: 0.3813690173098837
Epoch: 9945 || Error: 0.3813630006012113
Epoch: 9946 || Error: 0.38135698435260745
Epoch: 9947 || Error: 0.38135096856402934
Epoch: 9948 || Error: 0.38134495323543427
Epoch: 9949 || Error: 0.38133893836677957
Epoch: 9950 || Error: 0.3813329239580229
Epoch: 9951 || Error: 0.3813269100091212
Epoch: 9952 || Error: 0.38132089652003187
Epoch: 9953 || Error: 0.3813148834907126
Epoch: 9954 || Error: 0.38130887092112015
Epoch: 9955 || Error: 0.38130285881121245
Epoch: 9956 || Error: 0.38129684716094653
Epoch: 9957 || Error: 0.38129083597027985
Epoch: 9958 || Error: 0.3812848252391699
Epoch: 9959 || Error: 0.3812788149675739
Epoch: 9960 || Error: 0.3812728051554493
Epoch: 9961 || Error: 0.3812667958027535
Epoch: 9962 || Error: 0.3812607869094437
Epoch: 9963 || Error: 0.3812547784754777
Epoch: 9964 || Error: 0.38124877050081263
Epoch: 9965 || Error: 0.38124276298540594
Epoch: 9966 || Error: 0.38123675592921513
Epoch: 9967 || Error: 0.3812307493321974
Epoch: 9968 || Error: 0.38122474319431043
Epoch: 9969 || Error: 0.38121873751551144
Epoch: 9970 || Error: 0.381212732295758
Epoch: 9971 || Error: 0.38120672753500745
Epoch: 9972 || Error: 0.38120072323321746
Epoch: 9973 || Error: 0.38119471939034527
Epoch: 9974 || Error: 0.38118871600634807
Epoch: 9975 || Error: 0.38118271308118384
Epoch: 9976 || Error: 0.38117671061480984
Epoch: 9977 || Error: 0.38117070860718355
Epoch: 9978 || Error: 0.38116470705826255
Epoch: 9979 || Error: 0.3811587059680036
Epoch: 9980 || Error: 0.38115270533636536
Epoch: 9981 || Error: 0.3811467051633045
```

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Epoch: 9982 || Error: 0.38114070544877865
Epoch: 9983 || Error: 0.38113470619274536
Epoch: 9984 || Error: 0.3811287073951623
Epoch: 9985 || Error: 0.3811227090559867
Epoch: 9986 || Error: 0.3811167111751763
Epoch: 9987 || Error: 0.38111071375268846
Epoch: 9988 || Error: 0.38110471678848074
Epoch: 9989 || Error: 0.38109872028251074
Epoch: 9990 || Error: 0.3810927242347359
Epoch: 9991 || Error: 0.3810867286451138
Epoch: 9992 || Error: 0.38108073351360183
Epoch: 9993 || Error: 0.38107473884015786
Epoch: 9994 || Error: 0.3810687446247391
Epoch: 9995 || Error: 0.38106275086730346
Epoch: 9996 || Error: 0.38105675756780805
Epoch: 9997 || Error: 0.38105076472621074
Epoch: 9998 || Error: 0.38104477234246903
Epoch: 9999 || Error: 0.38103878041654066
Epoch: 10000 || Error: 0.38103278894838283
Max iteration reached!
Trained weights:
```

- [[[0.45660671737000963 0.6519113877939242]
 - [1.5606349591530178 3.2007363438706724]
 - [-4.035800724602569 -13.03283676623294]]]

```
In [41]: graph = ANNGraph("config/sigmoid_stochastic_GD.json")
    graph.draw_ann_graph()
    graph.solve()
    graph.show_weights()
```



```
Epoch: 1 || Error: 1.0855286440512353
Epoch: 2 || Error: 1.0794460874330905
Epoch: 3 || Error: 1.0734081036395293
Epoch: 4 || Error: 1.0674201849030998
Epoch: 5 || Error: 1.0614876128061133
Epoch: 6 || Error: 1.0556154196513714
Epoch: 7 || Error: 1.0498083527755973
Epoch: 8 || Error: 1.0440708424411773
Epoch: 9 || Error: 1.0384069738568922
Epoch: 10 || Error: 1.0328204637754925
Epoch: 11 || Error: 1.0273146419995067
Epoch: 12 || Error: 1.0218924380015322
Epoch: 13 || Error: 1.016556372736673
Epoch: 14 || Error: 1.0113085555981398
Epoch: 15 || Error: 1.0061506863472651
Epoch: 16 || Error: 1.00108406174076
Epoch: 17 || Error: 0.9961095864845153
Epoch: 18 || Error: 0.9912277880672765
Epoch: 19 || Error: 0.9864388349706118
Epoch: 20 || Error: 0.9817425577143316
Epoch: 21 || Error: 0.9771384721783867
Epoch: 22 || Error: 0.9726258046420584
Epoch: 23 || Error: 0.9682035179969657
Epoch: 24 || Error: 0.9638703386196574
Epoch: 25 || Error: 0.9596247834296524
Epoch: 26 || Error: 0.9554651867069217
Epoch: 27 || Error: 0.9513897262962865
Epoch: 28 || Error: 0.9473964488824722
Epoch: 29 || Error: 0.9434832940763833
Epoch: 30 || Error: 0.9396481171086276
Epoch: 31 || Error: 0.935888709978904
Epoch: 32 || Error: 0.932202820958402
Epoch: 33 || Error: 0.928588172386054
Epoch: 34 || Error: 0.925042476737867
Epoch: 35 || Error: 0.921563450981397
Epoch: 36 || Error: 0.9181488292548239
Epoch: 37 || Error: 0.9147963739321632
Epoch: 38 || Error: 0.9115038851533552
Epoch: 39 || Error: 0.9082692089106537
Epoch: 40 || Error: 0.9050902437914746
Epoch: 41 || Error: 0.90196494648312
Epoch: 42 || Error: 0.8988913361471106
Epoch: 43 || Error: 0.895867497770743
Epoch: 44 || Error: 0.8928915846013947
Epoch: 45 || Error: 0.8899618197654561
Epoch: 46 || Error: 0.887076497168963
Epoch: 47 || Error: 0.884233981771357
Epoch: 48 || Error: 0.8814327093176018
Epoch: 49 || Error: 0.8786711856073647
Epoch: 50 || Error: 0.8759479853733386
Epoch: 51 || Error: 0.8732617508341671
Epoch: 52 || Error: 0.8706111899809934
Epoch: 53 || Error: 0.8679950746504432
Epoch: 54 || Error: 0.8654122384309697
Epoch: 55 || Error: 0.8628615744439566
Epoch: 56 || Error: 0.8603420330358384
Epoch: 57 || Error: 0.8578526194127533
Epoch: 58 || Error: 0.8553923912449124
Epoch: 59 || Error: 0.8529604562639331
Epoch: 60 || Error: 0.8505559698728248
Epoch: 61 || Error: 0.8481781327851354
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Epoch: 62 || Error: 0.8458261887069252
Epoch: 63 || Error: 0.8434994220727149
Epoch: 64 || Error: 0.8411971558443397
Epoch: 65 || Error: 0.838918749379696
Epoch: 66 || Error: 0.8366635963766739
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Epoch: 68 || Error: 0.8322207854662714
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Epoch: 70 || Error: 0.8278644864184739
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Epoch: 105 || Error: 0.762797281511557
Epoch: 106 || Error: 0.7611974088654178
Epoch: 107 || Error: 0.7596099463541617
Epoch: 108 || Error: 0.7580347684114077
Epoch: 109 || Error: 0.756471751680936
Epoch: 110 || Error: 0.7549207749080254
Epoch: 111 || Error: 0.7533817188389447
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Epoch: 121 || Error: 0.7386218248681613
Epoch: 122 || Error: 0.7372065175151283
Epoch: 123 || Error: 0.735801828084707
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Epoch: 125 || Error: 0.7330239056694149
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Epoch: 9663 || Error: 0.383078101647546
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Epoch: 9667 || Error: 0.38305351369114815
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Epoch: 9672 || Error: 0.38302278936817413
Epoch: 9673 || Error: 0.383016645919475
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Epoch: 9734 || Error: 0.3826427861774886
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Epoch: 9773 || Error: 0.38240467663464295
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Epoch: 9858 || Error: 0.38188818006715397
Epoch: 9859 || Error: 0.38188212363239493
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Epoch: 9884 || Error: 0.38173086337252127
Epoch: 9885 || Error: 0.38172481898145433
Epoch: 9886 || Error: 0.38171877505302554
Epoch: 9887 || Error: 0.3817127315871919
Epoch: 9888 || Error: 0.38170668858391044
Epoch: 9889 || Error: 0.3817006460431383
Epoch: 9890 || Error: 0.38169460396483246
Epoch: 9891 || Error: 0.3816885623489498
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Epoch: 9893 || Error: 0.3816764805042831
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Epoch: 9902 || Error: 0.3816221350819023
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Epoch: 9904 || Error: 0.3816100634034653
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Epoch: 9906 || Error: 0.38159799357231844
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Epoch: 9914 || Error: 0.3815497327137719
Epoch: 9915 || Error: 0.381543702183176
Epoch: 9916 || Error: 0.38153767211393125
Epoch: 9917 || Error: 0.381531642505995
Epoch: 9918 || Error: 0.3815256133593237
Epoch: 9919 || Error: 0.38151958467387537
```

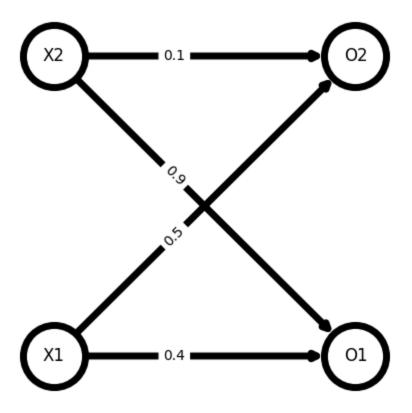
```
Epoch: 9920 || Error: 0.38151355644960666
Epoch: 9921 || Error: 0.38150752868647525
Epoch: 9922 || Error: 0.3815015013844378
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Epoch: 9938 || Error: 0.381405127225746
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Epoch: 9951 || Error: 0.3813269100091212
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Epoch: 9962 || Error: 0.3812607869094437
Epoch: 9963 || Error: 0.3812547784754777
Epoch: 9964 || Error: 0.38124877050081263
Epoch: 9965 || Error: 0.38124276298540594
Epoch: 9966 || Error: 0.38123675592921513
Epoch: 9967 || Error: 0.3812307493321974
Epoch: 9968 || Error: 0.38122474319431043
Epoch: 9969 || Error: 0.38121873751551144
Epoch: 9970 || Error: 0.381212732295758
Epoch: 9971 || Error: 0.38120672753500745
Epoch: 9972 || Error: 0.38120072323321746
Epoch: 9973 || Error: 0.38119471939034527
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Epoch: 9979 || Error: 0.3811587059680036
Epoch: 9980 || Error: 0.38115270533636536
Epoch: 9981 || Error: 0.3811467051633045
```

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Epoch: 9982 || Error: 0.38114070544877865
Epoch: 9983 || Error: 0.38113470619274536
Epoch: 9984 || Error: 0.3811287073951623
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Epoch: 9987 || Error: 0.38111071375268846
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Epoch: 9993 || Error: 0.38107473884015786
Epoch: 9994 || Error: 0.3810687446247391
Epoch: 9995 || Error: 0.38106275086730346
Epoch: 9996 || Error: 0.38105675756780805
Epoch: 9997 || Error: 0.38105076472621074
Epoch: 9998 || Error: 0.38104477234246903
Epoch: 9999 || Error: 0.38103878041654066
Epoch: 10000 || Error: 0.38103278894838283
Max iteration reached!
Trained weights:
```

- [[[0.45660671737000963 0.6519113877939242]
 - [1.5606349591530178 3.2007363438706724]
 - [-4.035800724602569 -13.03283676623294]]]

```
In [42]: graph = ANNGraph("config/sigmoid.json")
    graph.draw_ann_graph()
    graph.solve()
    graph.show_weights()
```

Bobot bias untuk 01 = 0.1Bobot bias untuk 02 = 0.2



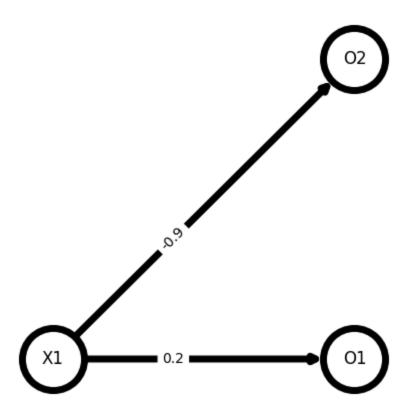
Epoch: 1 || Error: 0.4465929462986903
Max iteration reached!

Trained weights:
[[[0.10061658075420078 0.1974857748026805]
 [0.4 0.5]
 [0.901121454344799 0.09863434201890192]]]

SSE compared to final_weights: 8.863973303333145

```
In [43]: graph = ANNGraph("config/softmax_error_only.json")
    graph.draw_ann_graph()
    graph.solve()
    graph.show_weights()
```

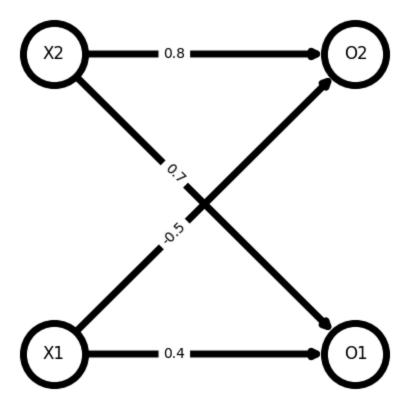
Bobot bias untuk 01 = 0.4Bobot bias untuk 02 = 0.7



SSE compared to final_weights: 0.0015652485578321424

```
In [44]: graph = ANNGraph("config/softmax.json")
    graph.draw_ann_graph()
    graph.solve()
    graph.show_weights()
```

Bobot bias untuk 01 = 0.1Bobot bias untuk 02 = 0.2



Epoch: 1 || Error: 2.2933074256150983 Max iteration reached!

Trained weights:

[[[0.11301356652329322 0.18698643347670682] [0.29539054838432355 -0.3953905483843235]

[0.7981026683540299 0.7018973316459701]]

SSE compared to final_weights: 3.4814236410918116e-17

```
In [45]: graph = ANNGraph("config/sse_only.json")
    graph.draw_ann_graph()
    graph.solve()
    graph.show_weights()
Bobot bias untuk 01 = 0.5
```

```
O2
02
00
01
```

```
Epoch: 1 || Error: 0.25
Error <= error threshold!

Trained weights:
[[[0.495 0.505]
      [0.0 0.0]]]

SSE compared to final_weights: 5.00000000000009e-05</pre>
```

Training menggunakan data Iris

Bobot bias untuk 02 = 0.5

Membuat model untuk dilatih

```
In [46]: from sklearn import datasets
         def generate_iris_to_train():
             iris = datasets.load_iris()
             # print(iris)
             # Definisikan model untuk nanti disave
             model = {
                 "case": {}
             }
             # Definisikan modelnya
             ## Iris punya 4 input --> input_size = 4
             ## Buat dua buah layer: satu hidden layer, neuron = 8, sigmoid dan satu ou
         tput layer, neuron = 3 (ada 3 kelas), softmax
             model["case"]["model"] = {
                  "input_size": 4,
                 "layers": [
                      {
                          "number_of_neurons": 8,
                          "activation_function": "sigmoid"
                     },
                          "number_of_neurons": 3,
                          "activation_function": "softmax"
                     }
                 ]
             # Ambil inputnya
             model["case"]["input"] = iris.data.tolist()
             # Definisikan weightsnya
             relu_weights = []
             ## Setiap neuron di sigmoid akan memiliki 3 weight: 1 bias, 4 dari input. A
         da 8 neuron
             for i in range(5):
                  random\_weight = [random.uniform(-0.05, 0.05), random.uniform(-0.05, 0.0)
         5), random.uniform(-0.05, 0.05), random.uniform(-0.05, 0.05),
                                 random.uniform(-0.05, 0.05), random.uniform(-0.05, 0.0)
         5), random.uniform(-0.05, 0.05), random.uniform(-0.05, 0.05)]
                  relu_weights.append(random_weight)
             ## Setiap neuron di softmax akan memiliki 9 weight: 1 bias, 8 dari ReLU. Ad
         a 3 neuron
             softmax_weights = []
             for i in range(9):
                  random\_weight = [random.uniform(-0.05, 0.05), random.uniform(-0.05, 0.0)]
         5), random.uniform(-0.05, 0.05)]
                  softmax_weights.append(random_weight)
             ## Masukkan ke dalam model
             model["case"]["initial_weights"] = []
             model["case"]["initial_weights"].append(relu_weights)
             model["case"]["initial_weights"].append(softmax_weights)
```

```
# Ambil targetnya
   # Dibuat dalam one hot encoding: [1, 0, 0] jika setosa; [0, 1, 0] jika vers
icolor; [0, 0, 1] jika virginica
    model["case"]["target"] = []
    for target in iris.target:
        if target == 0:
            model["case"]["target"].append([1, 0, 0])
        elif target == 1:
            model["case"]["target"].append([0, 1, 0])
        else:
            model["case"]["target"].append([0, 0, 1])
    # Atur learning parametersnya
    model["case"]["learning_parameters"] = {
        "learning_rate": 5e-3,
        "batch_size": 2,
        "max_iteration": 2000,
        "error_threshold": 0.1
    }
    # Save model di file
    jsonString = json.dumps(model)
    jsonFile = open("to_train/iris.json", "w")
    jsonFile.write(jsonString)
    jsonFile.close()
# generate_iris_to_train()
```

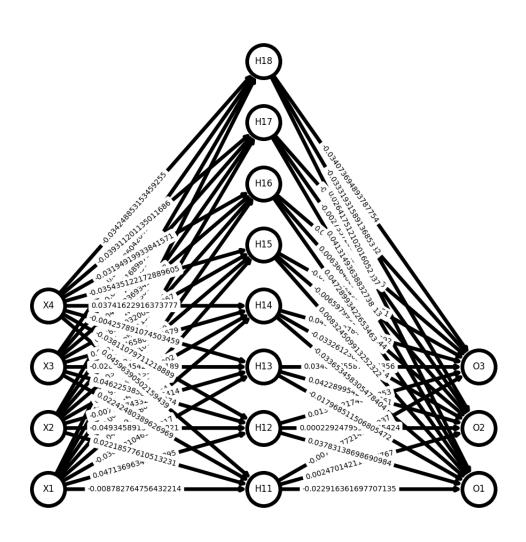
Melakukan pelatihan pada model dan menunjukkan hasil pelatihannya

```
In [47]: graph = ANNGraph("to_train/iris.json")

print("Before training:")
   graph.draw_ann_graph((16, 16))
   graph.solve()

print("After training:")
   graph.draw_ann_graph((16, 16))
   graph.show_weights()
```

| Before training: |
|------------------------------------------------|
| Bobot bias untuk $H11 = -0.00502808341889234$ |
| Bobot bias untuk $H12 = -0.025075462746789123$ |
| Bobot bias untuk $H13 = -0.03866846129468098$ |
| Bobot bias untuk $H14 = -0.024720831106776333$ |
| Bobot bias untuk H15 = 0.01592012307159417 |
| Bobot bias untuk H16 = 0.020194718934448103 |
| Bobot bias untuk $H17 = -0.03384732764253165$ |
| Bobot bias untuk H18 = 0.030124461976936925 |
| Bobot bias untuk 01 = 0.034042402533404 |
| Bobot bias untuk 02 = 0.016471999274220314 |
| Bobot bias untuk 03 = 0.04346622860197312 |



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Epoch: 1758 || Error: 7.703609748680196
Epoch: 1759 || Error: 7.703454748720715
Epoch: 1760 || Error: 7.703299963613706
Epoch: 1761 || Error: 7.703145392755919
Epoch: 1762 || Error: 7.702991035546158
Epoch: 1763 || Error: 7.7028368913849725
Epoch: 1764 || Error: 7.702682959674869
Epoch: 1765 || Error: 7.7025292398202785
Epoch: 1766 || Error: 7.702375731227519
Epoch: 1767 || Error: 7.702222433304659
Epoch: 1768 || Error: 7.702069345461819
Epoch: 1769 || Error: 7.70191646711087
Epoch: 1770 || Error: 7.70176379766557
Epoch: 1771 || Error: 7.701611336541574
Epoch: 1772 || Error: 7.701459083156264
Epoch: 1773 || Error: 7.7013070369289816
Epoch: 1774 || Error: 7.7011551972808405
Epoch: 1775 || Error: 7.701003563634807
Epoch: 1776 || Error: 7.700852135415629
Epoch: 1777 || Error: 7.700700912049927
Epoch: 1778 || Error: 7.70054989296605
Epoch: 1779 || Error: 7.700399077594186
Epoch: 1780 || Error: 7.700248465366357
Epoch: 1781 || Error: 7.700098055716274
Epoch: 1782 || Error: 7.699947848079548
Epoch: 1783 || Error: 7.699797841893441
Epoch: 1784 || Error: 7.699648036597063
Epoch: 1785 || Error: 7.699498431631302
Epoch: 1786 || Error: 7.699349026438698
Epoch: 1787 || Error: 7.69919982046368
Epoch: 1788 || Error: 7.699050813152239
Epoch: 1789 || Error: 7.6989020039523135
Epoch: 1790 || Error: 7.698753392313373
Epoch: 1791 || Error: 7.6986049776867445
Epoch: 1792 || Error: 7.698456759525431
Epoch: 1793 || Error: 7.698308737284173
Epoch: 1794 || Error: 7.69816091041935
Epoch: 1795 || Error: 7.698013278389043
Epoch: 1796 || Error: 7.697865840653141
```

Epoch: 1797 || Error: 7.697718596673142

```
Epoch: 1798 || Error: 7.697571545912153
Epoch: 1799 || Error: 7.697424687835065
Epoch: 1800 || Error: 7.697278021908401
Epoch: 1801 || Error: 7.69713154760039
Epoch: 1802 || Error: 7.696985264380782
Epoch: 1803 || Error: 7.696839171721123
Epoch: 1804 || Error: 7.696693269094587
Epoch: 1805 || Error: 7.696547555975881
Epoch: 1806 || Error: 7.696402031841462
Epoch: 1807 || Error: 7.696256696169338
Epoch: 1808 || Error: 7.696111548439254
Epoch: 1809 || Error: 7.695966588132346
Epoch: 1810 || Error: 7.695821814731599
Epoch: 1811 || Error: 7.69567722772148
Epoch: 1812 || Error: 7.695532826588101
Epoch: 1813 || Error: 7.695388610819117
Epoch: 1814 || Error: 7.695244579903803
Epoch: 1815 || Error: 7.6951007333330255
Epoch: 1816 || Error: 7.694957070599148
Epoch: 1817 || Error: 7.694813591196296
Epoch: 1818 || Error: 7.694670294619924
Epoch: 1819 || Error: 7.694527180367231
Epoch: 1820 || Error: 7.69438424793684
Epoch: 1821 || Error: 7.694241496828949
Epoch: 1822 || Error: 7.694098926545374
Epoch: 1823 || Error: 7.693956536589409
Epoch: 1824 || Error: 7.693814326465883
Epoch: 1825 || Error: 7.693672295681154
Epoch: 1826 || Error: 7.693530443743104
Epoch: 1827 || Error: 7.693388770161151
Epoch: 1828 || Error: 7.693247274446185
Epoch: 1829 || Error: 7.693105956110575
Epoch: 1830 || Error: 7.692964814668263
Epoch: 1831 || Error: 7.692823849634694
Epoch: 1832 || Error: 7.692683060526689
Epoch: 1833 || Error: 7.692542446862624
Epoch: 1834 || Error: 7.692402008162386
Epoch: 1835 || Error: 7.692261743947291
Epoch: 1836 || Error: 7.692121653740076
Epoch: 1837 || Error: 7.691981737065073
Epoch: 1838 || Error: 7.691841993447951
Epoch: 1839 || Error: 7.691702422415845
Epoch: 1840 || Error: 7.691563023497394
Epoch: 1841 || Error: 7.691423796222594
Epoch: 1842 || Error: 7.691284740123008
Epoch: 1843 || Error: 7.691145854731449
Epoch: 1844 || Error: 7.691007139582336
Epoch: 1845 || Error: 7.690868594211361
Epoch: 1846 || Error: 7.690730218155756
Epoch: 1847 || Error: 7.690592010954059
Epoch: 1848 || Error: 7.69045397214626
Epoch: 1849 || Error: 7.690316101273752
Epoch: 1850 || Error: 7.690178397879361
Epoch: 1851 || Error: 7.690040861507165
Epoch: 1852 || Error: 7.6899034917027755
Epoch: 1853 || Error: 7.689766288013136
Epoch: 1854 || Error: 7.689629249986596
Epoch: 1855 || Error: 7.689492377172757
Epoch: 1856 || Error: 7.689355669122676
Epoch: 1857 || Error: 7.689219125388831
Epoch: 1858 || Error: 7.689082745524897
```

Epoch: 1859 || Error: 7.688946529086024

```
Epoch: 1860 || Error: 7.68881047562876
Epoch: 1861 || Error: 7.688674584710783
Epoch: 1862 || Error: 7.688538855891238
Epoch: 1863 || Error: 7.688403288730681
Epoch: 1864 || Error: 7.68826788279082
Epoch: 1865 || Error: 7.6881326376348165
Epoch: 1866 || Error: 7.6879975528271
Epoch: 1867 || Error: 7.687862627933446
Epoch: 1868 || Error: 7.687727862520856
Epoch: 1869 || Error: 7.687593256157696
Epoch: 1870 || Error: 7.6874588084137025
Epoch: 1871 || Error: 7.687324518859683
Epoch: 1872 || Error: 7.687190387068011
Epoch: 1873 || Error: 7.687056412612146
Epoch: 1874 || Error: 7.686922595066912
Epoch: 1875 || Error: 7.686788934008337
Epoch: 1876 || Error: 7.686655429013858
Epoch: 1877 || Error: 7.686522079662048
Epoch: 1878 || Error: 7.686388885532791
Epoch: 1879 || Error: 7.686255846207186
Epoch: 1880 || Error: 7.686122961267695
Epoch: 1881 || Error: 7.6859902302979055
Epoch: 1882 || Error: 7.685857652882703
Epoch: 1883 || Error: 7.685725228608209
Epoch: 1884 || Error: 7.685592957061787
Epoch: 1885 || Error: 7.685460837831995
Epoch: 1886 || Error: 7.685328870508697
Epoch: 1887 || Error: 7.685197054682863
Epoch: 1888 || Error: 7.685065389946802
Epoch: 1889 || Error: 7.684933875893937
Epoch: 1890 || Error: 7.684802512118997
Epoch: 1891 || Error: 7.684671298217791
Epoch: 1892 || Error: 7.6845402337874
Epoch: 1893 || Error: 7.684409318426108
Epoch: 1894 || Error: 7.684278551733454
Epoch: 1895 || Error: 7.684147933309973
Epoch: 1896 || Error: 7.684017462757591
Epoch: 1897 || Error: 7.683887139679208
Epoch: 1898 || Error: 7.683756963679172
Epoch: 1899 || Error: 7.683626934362689
Epoch: 1900 || Error: 7.683497051336312
Epoch: 1901 || Error: 7.683367314207862
Epoch: 1902 || Error: 7.683237722586005
Epoch: 1903 || Error: 7.683108276080829
Epoch: 1904 || Error: 7.68297897430346
Epoch: 1905 || Error: 7.682849816866214
Epoch: 1906 || Error: 7.682720803382438
Epoch: 1907 || Error: 7.682591933466808
Epoch: 1908 || Error: 7.682463206734992
Epoch: 1909 || Error: 7.682334622803818
Epoch: 1910 || Error: 7.682206181291201
Epoch: 1911 || Error: 7.682077881816311
Epoch: 1912 || Error: 7.681949723999276
Epoch: 1913 || Error: 7.68182170746142
Epoch: 1914 || Error: 7.6816938318251475
Epoch: 1915 || Error: 7.68156609671402
Epoch: 1916 || Error: 7.6814385017526225
Epoch: 1917 || Error: 7.681311046566699
Epoch: 1918 || Error: 7.681183730783055
Epoch: 1919 || Error: 7.681056554029623
Epoch: 1920 || Error: 7.680929515935363
```

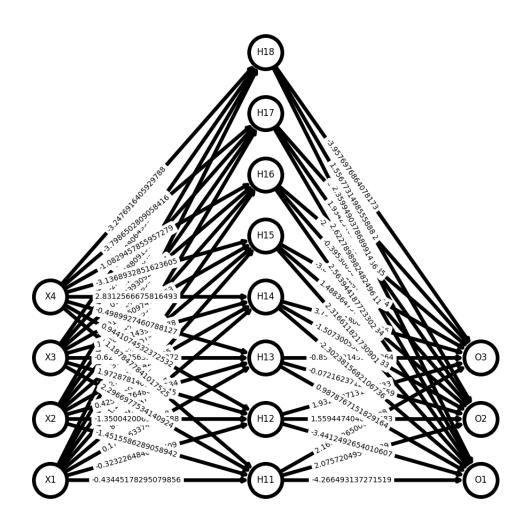
Epoch: 1921 || Error: 7.680802616130316

```
Epoch: 1922 || Error: 7.680675854245699
Epoch: 1923 || Error: 7.680549229913681
Epoch: 1924 || Error: 7.680422742767588
Epoch: 1925 || Error: 7.680296392441777
Epoch: 1926 || Error: 7.680170178571703
Epoch: 1927 || Error: 7.680044100793741
Epoch: 1928 || Error: 7.679918158745525
Epoch: 1929 || Error: 7.679792352065602
Epoch: 1930 || Error: 7.6796666803936215
Epoch: 1931 || Error: 7.679541143370263
Epoch: 1932 || Error: 7.679415740637238
Epoch: 1933 || Error: 7.679290471837304
Epoch: 1934 || Error: 7.679165336614226
Epoch: 1935 || Error: 7.67904033461286
Epoch: 1936 || Error: 7.678915465478987
Epoch: 1937 || Error: 7.678790728859546
Epoch: 1938 || Error: 7.6786661244023655
Epoch: 1939 || Error: 7.678541651756375
Epoch: 1940 || Error: 7.678417310571475
Epoch: 1941 || Error: 7.678293100498536
Epoch: 1942 || Error: 7.678169021189517
Epoch: 1943 || Error: 7.678045072297292
Epoch: 1944 || Error: 7.677921253475813
Epoch: 1945 || Error: 7.677797564379995
Epoch: 1946 || Error: 7.677674004665674
Epoch: 1947 || Error: 7.6775505739897785
Epoch: 1948 || Error: 7.677427272010201
Epoch: 1949 || Error: 7.67730409838571
Epoch: 1950 || Error: 7.677181052776152
Epoch: 1951 || Error: 7.677058134842322
Epoch: 1952 || Error: 7.676935344245949
Epoch: 1953 || Error: 7.676812680649831
Epoch: 1954 || Error: 7.676690143717557
Epoch: 1955 || Error: 7.676567733113839
Epoch: 1956 || Error: 7.67644544850421
Epoch: 1957 || Error: 7.676323289555251
Epoch: 1958 || Error: 7.6762012559344575
Epoch: 1959 || Error: 7.676079347310273
Epoch: 1960 || Error: 7.675957563352097
Epoch: 1961 || Error: 7.675835903730156
Epoch: 1962 | Error: 7.6757143681157896
Epoch: 1963 || Error: 7.67559295618119
Epoch: 1964 || Error: 7.675471667599399
Epoch: 1965 || Error: 7.675350502044511
Epoch: 1966 || Error: 7.675229459191438
Epoch: 1967 || Error: 7.675108538716115
Epoch: 1968 || Error: 7.674987740295273
Epoch: 1969 || Error: 7.674867063606601
Epoch: 1970 || Error: 7.674746508328826
Epoch: 1971 || Error: 7.674626074141306
Epoch: 1972 || Error: 7.674505760724553
Epoch: 1973 || Error: 7.674385567759854
Epoch: 1974 || Error: 7.674265494929388
Epoch: 1975 || Error: 7.6741455419163245
Epoch: 1976 || Error: 7.674025708404621
Epoch: 1977 || Error: 7.673905994079142
Epoch: 1978 || Error: 7.6737863986256665
Epoch: 1979 || Error: 7.6736669217308116
Epoch: 1980 || Error: 7.673547563082098
Epoch: 1981 || Error: 7.673428322367936
Epoch: 1982 || Error: 7.673309199277568
```

Epoch: 1983 || Error: 7.673190193501116

```
Epoch: 1984 || Error: 7.673071304729571
Epoch: 1985 || Error: 7.672952532654805
Epoch: 1986 || Error: 7.672833876969519
Epoch: 1987 || Error: 7.6727153373672285
Epoch: 1988 || Error: 7.672596913542439
Epoch: 1989 || Error: 7.672478605190309
Epoch: 1990 || Error: 7.672360412007094
Epoch: 1991 || Error: 7.67224233368957
Epoch: 1992 || Error: 7.67212436993566
Epoch: 1993 || Error: 7.672006520443974
Epoch: 1994 || Error: 7.6718887849139445
Epoch: 1995 || Error: 7.671771163045869
Epoch: 1996 || Error: 7.671653654540888
Epoch: 1997 || Error: 7.671536259100962
Epoch: 1998 || Error: 7.6714189764288
Epoch: 1999 || Error: 7.671301806228095
Epoch: 2000 || Error: 7.671184748203138
Max iteration reached!
After training:
Bobot bias untuk H11 = -0.2696133041638989
Bobot bias untuk H12 = -0.26163195287201324
Bobot bias untuk H13 = 0.22095467146265438
Bobot bias untuk H14 = -2.0716671332999077
Bobot bias untuk H15 = 2.233181591413826
Bobot bias untuk H16 = 0.5289839240094943
Bobot bias untuk H17 = 2.722170136348066
Bobot bias untuk H18 = 2.3313057286432284
Bobot bias untuk 01 = 0.12080130062109265
Bobot bias untuk 02 = -0.7290272752453877
```

Bobot bias untuk 03 = 0.7022066050338873



```
Trained weights:
[array([[-0.2696133041638989, -0.26163195287201324, 0.22095467146265438,
         -2.0716671332999077, 2.233181591413826, 0.5289839240094943,
         2.722170136348066, 2.3313057286432284],
        [-0.43445178295079856, -0.3232264840763409, 0.174446337448088,
         -0.8789369037428467, 1.1532800486223775, 0.40926377830640537,
         1.4378763821886849, 1.2050881402424172],
        [-1.4515586289058942, -1.3500420063618688, 0.42544976480918534,
         -1.276760184281305, 1.372733650701405, 0.8604725075991805,
         1.5631078368592304, 1.388456568645277],
        [2.2966977534140924, 1.9728781406524145, -0.6275485633465372,
         1.5904111439996238, -1.9111350974709063, -1.0923239309222004,
         -2.270688091512724, -1.970080643537471],
        [1.1878477841017525, 0.9441074532372532, -0.4989927460788127,
         2.8312566675816493, -3.1368932851623605, -1.0829457855957279,
         -3.7986502809058416, -3.2476916405929788]], dtype=object)
array([[0.12080130062109265, -0.7290272752453877, 0.7022066050338873],
        [-4.266493137271519, 2.075720495485429, 2.1632326500608388],
        [-3.4412492654010607, 1.5594474046301683, 1.9328697131218733],
         [0.9878767151829164, -0.07216237124522659, -0.8567591453591064], \\
        [-2.3023815682106736, -1.5073005507323083, 3.791801808602626],
        [2.316611821730901, 1.4883647375654034, -3.8303476979068454],
        [2.563944187723302, -0.3953069860695411, -2.1057961755300085],
        [2.6227898982482496, 1.9342348216983856, -4.55002088317242],
        [2.3599490378689914, 1.5567731498555888, -3.9576976864078173]],
       dtype=object)
```

Penyimpanan model hasil training pada dataset iris

```
In [48]: graph.save("trained/iris.json")
```

Uji coba model load hasil training dan perbandingannya dengan MLPClassifier dari sklearn

Load model hasil training dataset iris ke variabel iris_graph

```
In [49]: iris_graph = ANNGraph("trained/iris.json")
```

Buat MLPClassifier pada dataset iris

```
In [50]: from sklearn.neural_network import MLPClassifier
       iris = datasets.load_iris()
       X = iris.data
       y = iris.target
       mlp = MLPClassifier(hidden_layer_sizes=(8,), activation='logistic', solver='ada
       m', max_iter=20000, learning_rate_init=5e-3)
       mlp.fit(X, y)
       # Perlihatkan weightsnya
        print("Hidden layer weights:")
       print(mlp.coefs_[0])
       print("\n0utput layer weights:")
       print(mlp.coefs_[1])
       Hidden layer weights:
       -0.54090307 0.11414232]
        [-0.83665239 -1.50850432 -1.24384904 1.89846696 1.02833421 1.48521881
          2.14930226 0.92494213]
        [ 1.20030546  1.4048
                              1.29938237 -1.53245322 -1.21856398 -2.14103799
         -0.51442851 -1.32424858]
        1.65917304 -1.27161037]]
       Output layer weights:
       [-1.79095859 2.19277546 1.47722422]
        [-1.19861458 -1.59290563 2.2379788 ]
        [ 0.43153995  2.42364612 -1.09415132]
        [ 1.09293389  0.07884172 -1.66400716]
        [ 1.13733764  2.46970856  -2.18678193]
        [ 0.33836788 -2.34046172  0.57232431]
        [ 1.76784707 -2.34612758 -0.98425423]]
```

Perbandingan model hasil pelatihan sklearn dan model buatan kami

Perhatikan bahwa model sengaja dibuat memiliki banyak hidden layer dan neuron yang sama serta memiliki fungsi aktivasi yang sama agar perbandingan dapat dilakukan dengan jelas.

```
In [51]: | print("\n=== Trained model without sklearn ===\n")
         iris_graph.show_weights()
         === Trained model without sklearn ===
         Trained weights:
         [array([[-0.2696133041638989, -0.26163195287201324, 0.22095467146265438,
                  -2.0716671332999077, 2.233181591413826, 0.5289839240094943,
                  2.722170136348066, 2.3313057286432284],
                 [-0.43445178295079856, -0.3232264840763409, 0.174446337448088,
                  -0.8789369037428467, 1.1532800486223775, 0.40926377830640537,
                  1.4378763821886849, 1.2050881402424172],
                 [-1.4515586289058942, -1.3500420063618688, 0.42544976480918534,
                  -1.276760184281305, 1.372733650701405, 0.8604725075991805,
                  1.5631078368592304, 1.388456568645277],
                 \lceil 2.2966977534140924, 1.9728781406524145, -0.6275485633465372, \rceil
                  1.5904111439996238, -1.9111350974709063, -1.0923239309222004,
                  -2.270688091512724, -1.970080643537471],
                 [1.1878477841017525, 0.9441074532372532, -0.4989927460788127,
                  2.8312566675816493, -3.1368932851623605, -1.0829457855957279,
                  -3.7986502809058416, -3.2476916405929788]], dtype=object)
          array([[0.12080130062109265, -0.7290272752453877, 0.7022066050338873],
                 [-4.266493137271519, 2.075720495485429, 2.1632326500608388],
                 [-3.4412492654010607, 1.5594474046301683, 1.9328697131218733],
                 [0.9878767151829164, -0.07216237124522659, -0.8567591453591064],
                  [-2.3023815682106736, -1.5073005507323083, 3.791801808602626],
                 [2.316611821730901, 1.4883647375654034, -3.8303476979068454],
                 [2.563944187723302, -0.3953069860695411, -2.1057961755300085],
                 [2.6227898982482496, 1.9342348216983856, -4.55002088317242],
                 [2.3599490378689914, 1.5567731498555888, -3.9576976864078173]],
                dtype=object)
                                                                                   ]
In [52]: to_predict = [5.1, 3.5, 1.4, 0.2]
         print(f"\n>>> Percobaan untuk memprediksi {to_predict}")
         predicted = iris_graph.predict_mlp(to_predict)
         if predicted == 0:
             print("Setosa")
         elif predicted == 1:
             print("Versicolor")
         else:
             print("Virginica")
         to_predict = [6.2, 2.8, 4.8, 1.8]
         print(f"\n>>> Percobaan untuk memprediksi {to_predict}")
         predicted = iris_graph.predict_mlp(to_predict)
         if predicted == 0:
             print("Setosa")
         elif predicted == 1:
             print("Versicolor")
         else:
             print("Virginica")
         >>> Percobaan untuk memprediksi [5.1, 3.5, 1.4, 0.2]
```

>>> Percobaan untuk memprediksi [6.2, 2.8, 4.8, 1.8]

Virginica

```
In [53]: | print("\n=== Trained model using sklearn ===\n")
         print(mlp.coefs_[0])
        print(mlp.coefs_[1])
        === Trained model using sklearn ===
         [[-0.29051113  0.24301084 -0.65475387  0.39121228  0.55237429
                                                                     1.25464212
          -0.54090307 0.11414232]
          [-0.83665239 -1.50850432 -1.24384904 1.89846696 1.02833421 1.48521881
           2.14930226 0.92494213]
                                  1.29938237 -1.53245322 -1.21856398 -2.14103799
          [ 1.20030546  1.4048
          -0.51442851 -1.32424858]
         1.65917304 -1.27161037]]
         [[-0.93381362 1.23057218 1.04457389]
         [-1.79095859 2.19277546 1.47722422]
         [-1.19861458 -1.59290563 2.2379788]
          [ 0.43153995  2.42364612 -1.09415132]
         [ 1.09293389  0.07884172 -1.66400716]
          [ 1.13733764  2.46970856  -2.18678193]
          [ 0.33836788 -2.34046172  0.57232431]
          [ 1.76784707 -2.34612758 -0.98425423]]
In [54]: to_predict = [5.1, 3.5, 1.4, 0.2]
         print(f"\n>>> Percobaan untuk memprediksi {to_predict}")
        predicted = mlp.predict([to_predict])
         if predicted == 0:
            print("Setosa")
         elif predicted == 1:
            print("Versicolor")
         else:
            print("Virginica")
         to_predict = [6.2, 2.8, 4.8, 1.8]
         print(f"\n>>> Percobaan untuk memprediksi {to_predict}")
         predicted = mlp.predict([to_predict])
         if predicted == 0:
            print("Setosa")
         elif predicted == 1:
            print("Versicolor")
        else:
            print("Virginica")
        >>> Percobaan untuk memprediksi [5.1, 3.5, 1.4, 0.2]
```

>>> Percobaan untuk memprediksi [6.2, 2.8, 4.8, 1.8]

Virginica

| Kesimpulan dari perbandingan model hasil pelatihan sklearn dan model buatan kami |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Walaupun kedua model memiliki weight yang berbeda hasilnya, tapi kedua model, baik yang dibuat kami maupun dibuat oleh sklearn.MLPClassifier, dapat menghasilkan klasifikasi yang sama untuk uji coba yang kami buat. |
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