CS 229 HW 1 CalcGPT

April 24, 2023

```
[1]: !pip install transformers
     !pip install accelerate
    Looking in indexes: https://pypi.org/simple, https://us-python.pkg.dev/colab-
    wheels/public/simple/
    Collecting transformers
      Downloading transformers-4.28.1-py3-none-any.whl (7.0 MB)
                               7.0/7.0 MB
    55.5 MB/s eta 0:00:00
    Collecting huggingface-hub<1.0,>=0.11.0
      Downloading huggingface_hub-0.13.4-py3-none-any.whl (200 kB)
                               200.1/200.1 kB
    30.5 MB/s eta 0:00:00
    Collecting tokenizers!=0.11.3,<0.14,>=0.11.1
      Downloading
    tokenizers-0.13.3-cp39-cp39-manylinux_2_17_x86_64.manylinux2014_x86_64.whl (7.8
    MB)
                               7.8/7.8 MB
    110.2 MB/s eta 0:00:00
    Requirement already satisfied: regex!=2019.12.17 in
    /usr/local/lib/python3.9/dist-packages (from transformers) (2022.10.31)
    Requirement already satisfied: numpy>=1.17 in /usr/local/lib/python3.9/dist-
    packages (from transformers) (1.22.4)
    Requirement already satisfied: packaging>=20.0 in /usr/local/lib/python3.9/dist-
    packages (from transformers) (23.1)
    Requirement already satisfied: requests in /usr/local/lib/python3.9/dist-
    packages (from transformers) (2.27.1)
    Requirement already satisfied: filelock in /usr/local/lib/python3.9/dist-
    packages (from transformers) (3.11.0)
    Requirement already satisfied: tqdm>=4.27 in /usr/local/lib/python3.9/dist-
    packages (from transformers) (4.65.0)
    Requirement already satisfied: pyyaml>=5.1 in /usr/local/lib/python3.9/dist-
    packages (from transformers) (6.0)
    Requirement already satisfied: typing-extensions>=3.7.4.3 in
    /usr/local/lib/python3.9/dist-packages (from huggingface-
    hub<1.0,>=0.11.0->transformers) (4.5.0)
    Requirement already satisfied: urllib3<1.27,>=1.21.1 in
    /usr/local/lib/python3.9/dist-packages (from requests->transformers) (1.26.15)
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Requirement already satisfied: charset-normalizer~=2.0.0 in
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/usr/local/lib/python3.9/dist-packages (from requests->transformers) (2022.12.7)
Requirement already satisfied: idna<4,>=2.5 in /usr/local/lib/python3.9/dist-
packages (from requests->transformers) (3.4)
Installing collected packages: tokenizers, huggingface-hub, transformers
Successfully installed huggingface-hub-0.13.4 tokenizers-0.13.3
transformers-4.28.1
Looking in indexes: https://pypi.org/simple, https://us-python.pkg.dev/colab-
wheels/public/simple/
Collecting accelerate
  Downloading accelerate-0.18.0-py3-none-any.whl (215 kB)
                          215.3/215.3 kB
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(from triton==2.0.0->torch>=1.4.0->accelerate) (3.25.2)
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packages (from jinja2->torch>=1.4.0->accelerate) (2.1.2)
Requirement already satisfied: mpmath>=0.19 in /usr/local/lib/python3.9/dist-
packages (from sympy->torch>=1.4.0->accelerate) (1.3.0)
Installing collected packages: accelerate
Successfully installed accelerate-0.18.0
```

```
[2]: import torch as t
     from transformers import GPT2LMHeadModel, GPT2Tokenizer # pip install_
      \hookrightarrow transformers
     from transformers import AutoModelForCausalLM, AutoTokenizer, AutoConfig
     import matplotlib.pyplot as plt
     import time
     import numpy as np
     import sklearn
     import pickle
     import re # regular expressions, useful for decoding the output
     import pandas as pd
[3]: def create_dataset(i_start=0, i_end=50, operation=t.add):
         """(1 pt) Create a dataset of pairs of numbers to calculate an operation
         on.
         DO NOT USE A FOR LOOP.
         Use pytorch functions, possibilities include
         meshgrid, stack, reshape, repeat, tile.
         (Note you'll have to use for loops on string stuff in other functions)
         The dataset should be a tuple of two tensors, X and y, where X is a Nx2
         tensor of numbers to add,
         and y is a N tensor of the correct answers.
         E.q., if i_start=0, i_end=2, then X should be
         tensor([[0,0,1,1],[0,1,0,1]]).T and y should be tensor([0,1,1,2]).
         I recommend doing all pairs of sums involving 0-49, but you may modify
         this.
         HHHH
         # TODO
         # Create tensors for the x and y values
         x1 = t.arange(i_start, i_end)
         x2 = t.arange(i_start, i_end)
         # # Using MeshGrid
         \# x1, x2 = t.meshgrid(x1, x2)
         # x1 = x1.reshape(-1)
         \# x2 = x2.reshape(-1)
         \# X = t.stack((x1, x2), dim=1)
         # Using Tile
         x1 = x1.tile(((i_end - i_start), 1))
         x1 = x1.T.reshape(-1,)
         x2 = x2.tile(((i end - i start)))
         X = t.stack((x1, x2), dim=0)
```

```
# Perform the desired operation (addition in this case)

if operation == t.add:
    y = x1 + x2

return X, y

[4]: def load_LLM(default="EleutherAI/gpt-neo-2.7B", device='cpu'):
    """(1 pt) Load a pretrained LLM and put on device. Default choice is a large-ish GPT-neo-2.7B model on Huggingface.
    Could also consider the "open GPT" from facebook: "facebook/opt-2.7b", or others
```

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    large-ish GPT-neo-2.7B model on Huggingface.
    Could also consider the "open GPT" from facebook: "facebook/opt-2.7b", or
    others
    here: https://huggingface.co/models?pipeline_tag=text-generation

Explicitly load model and tokenizer, don't use the huggingface "pipeline"
    which hides details of the model
    (and it also has no batch processing, which we need here) """

# TODO

# load model from huggingface
model = AutoModelForCausalLM.from_pretrained(default, torch_dtype=t.float16)
# move model to gpu
model.to(device)
# load tokenizer from huggingface
tokenizer = AutoTokenizer.from_pretrained(default)
return model, tokenizer
```

```
[5]: def encode_problems(X, strategy='baseline'):
    """(1 pts) Encode the problems as strings. For example, if X is
    [[0,0,1,1],[0,1,0,1]],
    then the baseline output should be ["0+0=", "0+1=", "1+0=", "1+1="]"""

# Encode the problem based on various prompts.
# In case nothing is provided, use baseline

output_strings = []

for xi in X.T:
    if strategy == 'word_problem':
        encode_string ="Add {} and {}".format(xi[0], xi[1])
    elif strategy == 'code':
        encode_string ="A={}, B={}, A+B=".format(xi[0], xi[1])
    elif strategy == 'algebra':
```

```
encode_string ="if x={} and y={} and z=x+y, then what is z?".

oformat(xi[0], xi[1])
    elif strategy == 'in_context':
        encode_string ="if 7+11=18 and 31+22=55 then {}+{}=".format(xi[0], u)

oxi[1])
    else:
        encode_string = "{}+{}=".format(xi[0],xi[1])

    output_strings.append(encode_string)

return output_strings
```

```
[6]: def generate_text(model, tokenizer, prompts, verbose=True, device='cpu'):
         """(3 pts) Complete the prompt using the LLM.
         1. Tokenize the prompts:
         https://hugqingface.co/docs/transformers/preprocessing
             Put data and model on device to speed up computations
             (Note that in real life, you'd use a dataloader to do this efficiently
         in the background during training.)
         2. Generate text using the model.
             Turn off gradient tracking to save memory.
             Determine the sampling hyper-parameters.
             You may need to do it in batches, depending on memory constraints
         3. Use the tokenizer to decode the output.
         You will need to optionally print out the tokenization of the input and
         output strings for use in the write-up.
         t0 = time.time()
         # TODO: tokenize
         encoded_input = tokenizer(prompts, return_tensors="pt").input_ids.to(device)
         print ()
         # # TODO: generate text, turn off gradient tracking
         output = []
         batch = 2
         with t.no grad():
             for i in range(0,encoded_input.shape[0],batch):
                 if i + batch <= encoded input.shape[0]:</pre>
                     output.extend(model.generate(encoded_input[i:i+batch]))
                 else:
                     output.extend(model.generate(encoded_input[i:encoded_input.
      ⇒shape[0]]))
         # # TODO: decode output, output_strings = ...
         output strings = []
```

```
[7]: def decode_output(output_strings, strategy='baseline', verbose=True):
         """(1 pt) Decode the output strings into a list of integers. Use "t.nan"
         for failed responses.
         One suggestion is to split on non-numeric characters, then convert to int.
         And use try/except to catch errors.
         11 11 11
         # Use regex to get the first numerical value.
         # In case no numerical value, store nan
         # We only look at first value as we have removed the input string from this,
      \hookrightarrow output
         import re
         # TODO:
         y_hat = []
         for s in output_strings:
             y = re.findall(r'-?\d+(?:\.\d+)?', s)
             y_hat.append(float(y[0]) if len(y)>0 else t.nan)
         return y hat
```

```
[8]: def linear_classifier(X,y, strategy):
    import numpy as np
    import matplotlib.pyplot as plt
    from sklearn.neural_network import MLPClassifier
    from sklearn.metrics import confusion_matrix, classification_report
```

```
clf = MLPClassifier(hidden_layer_sizes=(64,64,64,64,64,32,16,8,),
⇔activation='relu', solver='lbfgs', max_iter = 1000, )
  clf.fit(X, y)
  y pred = clf.predict(X)
  acc = np.sum(y_pred == y)/y_pred.shape[0]
  cm = confusion_matrix(y, y_pred)
  fnr = cm[1, 0] / (cm[1, 0] + cm[1, 1])
  print(f"False negative rate: {fnr}")
  print ('acc of classifier is {}'.format(acc))
  def plot_decision_regions(clf, X, y, resolution=0.1):
      x_{min}, x_{max} = X[:, 0].min() - 1, X[:, 0].max() + 1
      y_{min}, y_{max} = X[:, 1].min() - 1, X[:, 1].max() + 1
      xx, yy = np.meshgrid(np.arange(x_min, x_max, resolution),
                           np.arange(y_min, y_max, resolution))
      Z = clf.predict(np.c_[xx.ravel(), yy.ravel()])
      Z = Z.reshape(xx.shape)
      plt.contourf(xx, yy, Z, alpha=0.3)
  plt.title('{}, addition, MLP Classifier'.format(strategy))
  plt.xlabel('x1')
  plt.ylabel('x2')
  x_{\min}, x_{\max} = X[:, 0].min() - 1, X[:, 0].max() + 1
  plt.xticks(np.arange(x_min, x_max, step=2))
  plt.yticks(np.arange(x_min, x_max, step=2))
  plt.scatter(X[:, 0], X[:, 1], c=y, cmap=plt.cm.Paired)
  plot_decision_regions(clf, X, y)
  plt.legend()
  plt.show()
  return acc, fnr
```

```
[9]: def analyze_results(X, y, y_hats, strategies):
    """"(3 pts) Analyze the results.
    Output the accuracy of each strategy.
    Plot a scatter plot of the problems "x1+x2" with x1,x2 on each axis,
    and different plot markers to indicate whether the answer from your LLM was
    correct.
    (See write-up instructions for requirements on plots)
    Train a classifier to predict whether the LLM gave the correct response
    (using scikit-learn, for example)
    and plot the classifier boundary over the scatter plot with "contour". (Use
    whatever classifier looks appropriate)"""
```

```
results_list = []
  for strategy, y_hat in zip(strategies, y_hats):
      print ()
      print (' _____')
      print (strategy)
      # accuracy of strategies
      accuracy = t.sum(t.tensor(y_hat) == y)/ len(y_hat)
      print ('accuracy of {} is {}'.format(strategy, accuracy))
      # scatter plot
      correct = []
      incorrect = []
      for x1, x2, true,pred in zip(X[0], X[1], y,y_hat):
          if true == pred:
              correct.append([x1,x2])
          else:
              incorrect.append([x1,x2])
      correct = t.tensor(correct)
      incorrect = t.tensor(incorrect)
      plt.title('{}, addition'.format(strategy))
      plt.xlabel('x1')
      plt.ylabel('x2')
      plt.xticks(np.arange(min(X[0])-2, max(X[0])+2, step=2))
      plt.yticks(np.arange(min(X[1])-2, max(X[1])+2, step=2))
      if len(correct):
          plt.scatter(correct[:,0], correct[:,1], c='green', s=25,__
⇔label='correct')
      if len(incorrect):
          plt.scatter(incorrect[:,0], incorrect[:,1], c='red', s=25,_
⇔label='incorrect')
      plt.legend()
      plt.show()
      # classifier
      # create a dataset for classifier
      x_train = X.T
      y_train = [1 if i else 0 for i in y == t.tensor(y_hat)]
      if len(correct):
          acc, fnr = linear_classifier(x_train, y_train, strategy)
```

```
[10]: if __name__ == "__main__":
          device = t.device("cuda" if t.cuda.is_available() else "cpu") # Use GPU ifu
       \rightarrow available
          # Create Dataset of X and Y
          X, y = create_dataset(10, 50)
          # Load model and tokenizer.
          # Currently using EleutherAI/gpt-neo-1.3B as EleutherAI/gpt-neo-2.7B is not_
       ⇔being loaded on GPU
          model_names = ['EleutherAI/gpt-neo-2.7B', 'EleutherAI/gpt-neo-1.
       →3B', 'facebook/opt-2.7b', 'EleutherAI/gpt-neo-125m']
          model, tokenizer = load LLM(default = model names[2], device=device)
          # list of lists of predicted answers, y hat, for each strategy
          y_hats = []
          # Various strategies to be used
          strategies = ['word_problem', 'code', 'algebra', 'in_context', 'baseline']
          for strategy in strategies:
              # print (strategy)
              # encode string based on strategy
              input_strings = encode_problems(X, strategy=strategy)
              # print (input_strings)
              # generate output by passing it through the model
              output_strings = generate_text(model, tokenizer, input_strings, verbose_
       →= True, device=device)
              # print (output_strings)
```

```
# # Remove the input string from generated answer
   output_strings_updated = [out_s[4+len(in_s):] for in_s, out_s in_u
zip(input_strings, output_strings)]
# print (output_strings_updated)

# decode the output to get first numerical number or nan
   y_hat = decode_output(output_strings_updated, strategy=strategy)
# print (y_hat)

# append to lists
   y_hats.append(y_hat)

# analyze the output
analyze_results(X, y, y_hats, strategies)
```

```
| 0.00/691 [00:00<?, ?B/s]
Downloading (...)lve/main/config.json:
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```

/usr/local/lib/python3.9/dist-packages/transformers/generation/utils.py:1313: UserWarning: Using `max_length`'s default (20) to control the generation length. This behaviour is deprecated and will be removed from the config in v5 of Transformers -- we recommend using `max_new_tokens` to control the maximum length of the generation.

```
warnings.warn(
```

input

Add 10 and 10

output

</s>Add 10 and 10 to the number of people who have died from the coronavirus in the

Time to generate text: 362.3183741569519

Input length of input_ids is 21, but `max_length` is set to 20. This can lead to unexpected behavior. You should consider increasing `max_new_tokens`.

Input length of input_ids is 21, but `max_length` is set to 20. This can lead to unexpected behavior. You should consider increasing `max_new_tokens`. Input length of input_ids is 21, but `max_length` is set to 20. This can lead to unexpected behavior. You should consider increasing `max_new_tokens`.

input
A=10, B=10, A+B=
-----output
</s>A=10, B=10, A+B=20, A+B+C

Time to generate text: 172.01327514648438

Input length of input ids is 21, but `max_length` is set to 20. This can lead to unexpected behavior. You should consider increasing `max_new_tokens`. Input length of input ids is 21, but `max_length` is set to 20. This can lead to unexpected behavior. You should consider increasing `max_new_tokens`. Input length of input_ids is 21, but `max_length` is set to 20. This can lead to unexpected behavior. You should consider increasing `max new tokens`. Input length of input_ids is 21, but `max_length` is set to 20. This can lead to unexpected behavior. You should consider increasing `max_new_tokens`. Input length of input_ids is 21, but `max_length` is set to 20. This can lead to unexpected behavior. You should consider increasing `max_new_tokens`. Input length of input ids is 21, but `max_length` is set to 20. This can lead to unexpected behavior. You should consider increasing `max_new_tokens`. Input length of input ids is 21, but `max_length` is set to 20. This can lead to unexpected behavior. You should consider increasing `max_new_tokens`. Input length of input ids is 21, but `max_length` is set to 20. This can lead to unexpected behavior. You should consider increasing `max_new_tokens`. Input length of input_ids is 21, but `max_length` is set to 20. This can lead to unexpected behavior. You should consider increasing `max_new_tokens`. Input length of input_ids is 21, but `max_length` is set to 20. This can lead to unexpected behavior. You should consider increasing `max new tokens`. Input length of input_ids is 21, but `max_length` is set to 20. This can lead to unexpected behavior. You should consider increasing `max new tokens`. Input length of input_ids is 21, but `max_length` is set to 20. This can lead to unexpected behavior. You should consider increasing `max_new_tokens`. Input length of input_ids is 21, but `max_length` is set to 20. This can lead to unexpected behavior. You should consider increasing `max_new_tokens`. Input length of input ids is 21, but `max_length` is set to 20. This can lead to unexpected behavior. You should consider increasing `max_new_tokens`. Input length of input ids is 21, but `max_length` is set to 20. This can lead to unexpected behavior. You should consider increasing `max_new_tokens`. Input length of input ids is 21, but `max_length` is set to 20. This can lead to unexpected behavior. You should consider increasing `max_new_tokens`. Input length of input_ids is 21, but `max_length` is set to 20. This can lead to

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input
if x=10 and y=10 and z=x+y, then what is z?

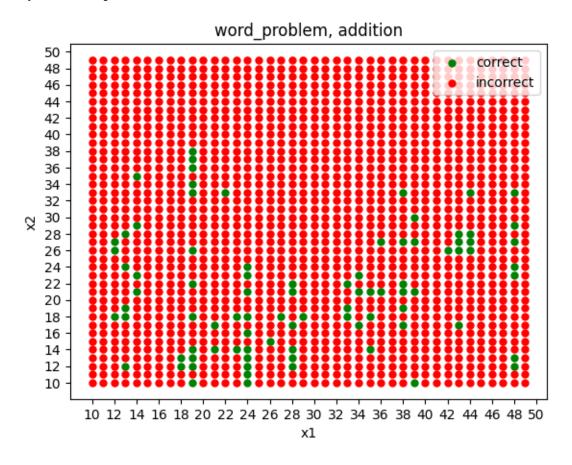
------
output
</s>if x=10 and y=10 and z=x+y, then what is z?

-----
Time to generate text: 32.67308783531189

-----
input
if 7+11=18 and 31+22=55 then 10+10=
-----
output
</s>if 7+11=18 and 31+22=55 then 10+10=20 and
-----
Time to generate text: 53.83898854255676
```

input 10+10= output </s>10+10=11. Time to generate text: 358.8727424144745

word_problem accuracy of word_problem is 0.054375000298023224



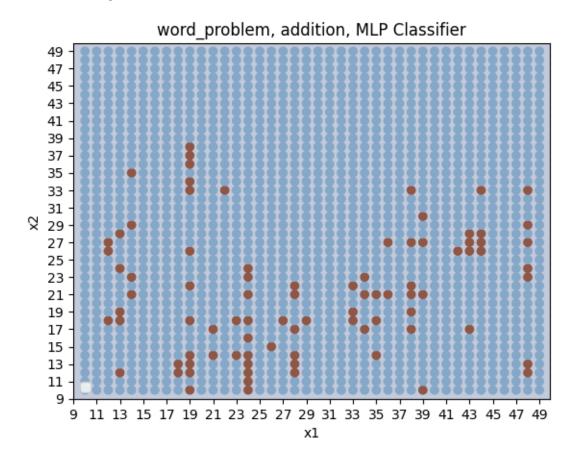
/usr/local/lib/python3.9/distpackages/sklearn/neural_network/_multilayer_perceptron.py:541: ConvergenceWarning: lbfgs failed to converge (status=1): STOP: TOTAL NO. of ITERATIONS REACHED LIMIT.

Increase the number of iterations (max_iter) or scale the data as shown in: https://scikit-learn.org/stable/modules/preprocessing.html

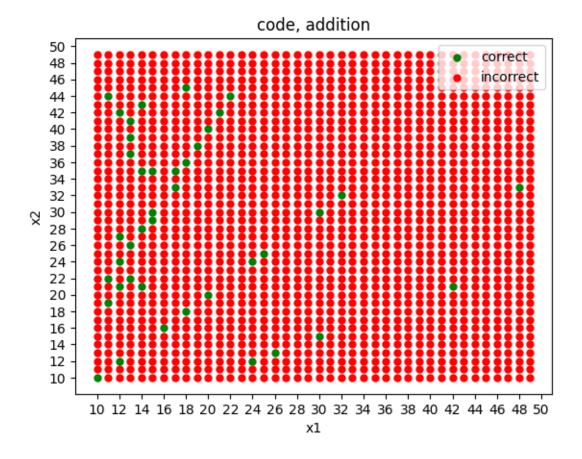
self.n_iter_ = _check_optimize_result("lbfgs", opt_res, self.max_iter)

False negative rate: 1.0 acc of classifier is 0.945625

WARNING:matplotlib.legend:No artists with labels found to put in legend. Note that artists whose label start with an underscore are ignored when legend() is called with no argument.



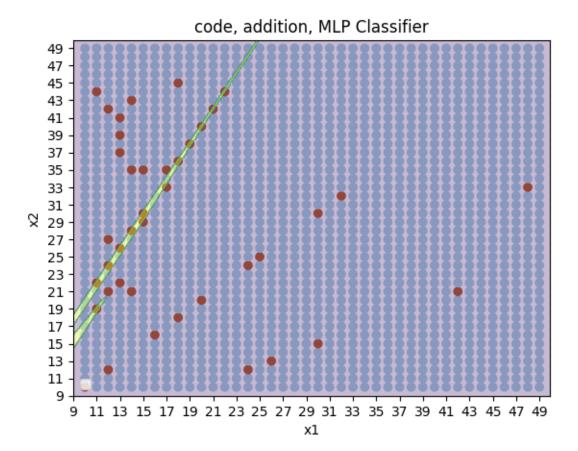
code accuracy of code is 0.025624999776482582



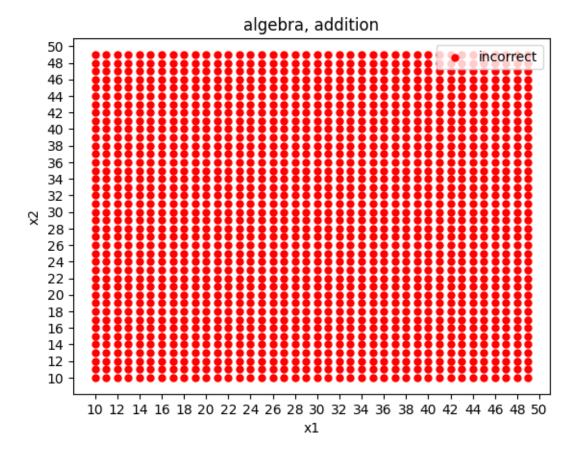
 $False \ negative \ rate: \ 0.7317073170731707 \\$

acc of classifier is 0.97875

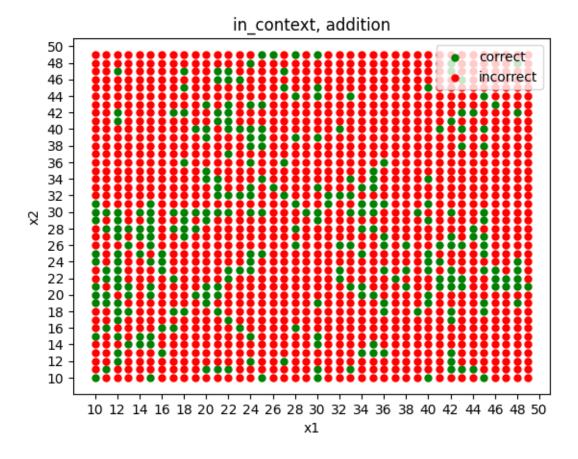
WARNING:matplotlib.legend:No artists with labels found to put in legend. Note that artists whose label start with an underscore are ignored when legend() is called with no argument.



algebra accuracy of algebra is 0.0



in_context
accuracy of in_context is 0.17937499284744263

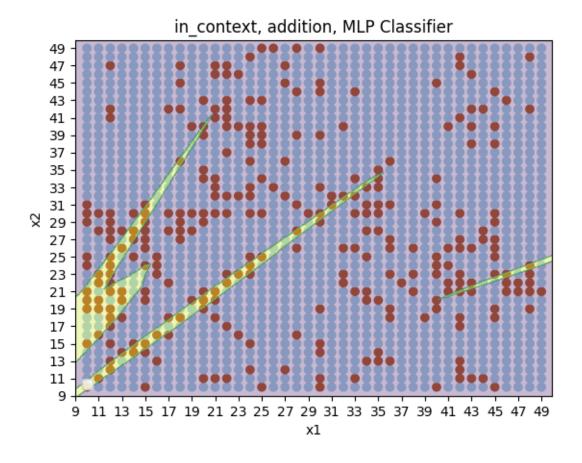


```
/usr/local/lib/python3.9/dist-
packages/sklearn/neural_network/_multilayer_perceptron.py:541:
ConvergenceWarning: lbfgs failed to converge (status=1):
STOP: TOTAL NO. of ITERATIONS REACHED LIMIT.
```

Increase the number of iterations (max_iter) or scale the data as shown in:
 https://scikit-learn.org/stable/modules/preprocessing.html
 self.n_iter_ = _check_optimize_result("lbfgs", opt_res, self.max_iter)

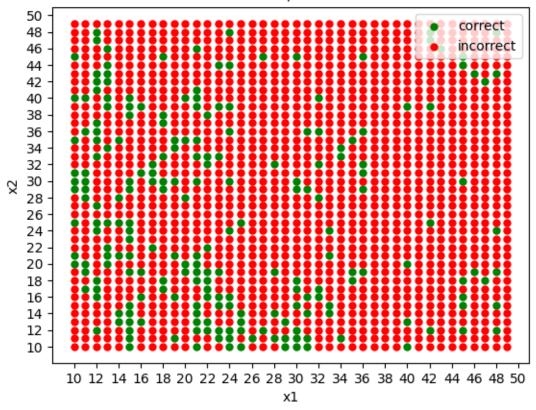
False negative rate: 0.8501742160278746 acc of classifier is 0.831875

WARNING:matplotlib.legend:No artists with labels found to put in legend. Note that artists whose label start with an underscore are ignored when legend() is called with no argument.



baseline accuracy of baseline is 0.1368750035762787

baseline, addition

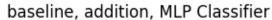


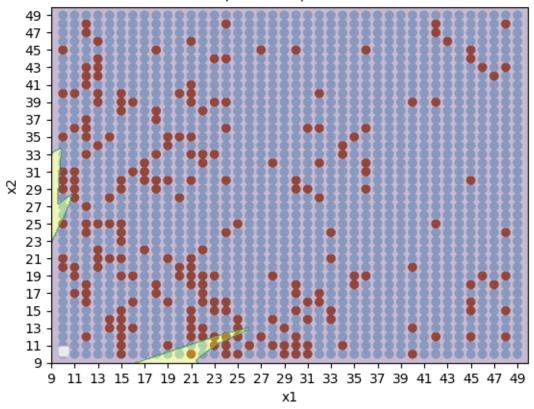
/usr/local/lib/python3.9/distpackages/sklearn/neural_network/_multilayer_perceptron.py:541: ConvergenceWarning: lbfgs failed to converge (status=1): STOP: TOTAL NO. of ITERATIONS REACHED LIMIT.

Increase the number of iterations (max_iter) or scale the data as shown in:
 https://scikit-learn.org/stable/modules/preprocessing.html
 self.n_iter_ = _check_optimize_result("lbfgs", opt_res, self.max_iter)

False negative rate: 0.9863013698630136 acc of classifier is 0.860625

WARNING:matplotlib.legend:No artists with labels found to put in legend. Note that artists whose label start with an underscore are ignored when legend() is called with no argument.





The resultant Accuracies

```
strategy miss_rate (in %) accuracy (in %) classifier_accuracy (in %)
   word_problem
                            100.0
                                          5.437500
                                                                        94.5625
0
1
           code
                       73.170732
                                          2.562500
                                                                        97.8750
2
        algebra
                                          0.000000
                                                                         0.0000
                             N/A
3
     in_context
                       85.017422
                                         17.937499
                                                                        83.1875
4
       baseline
                       98.630137
                                         13.687500
                                                                        86.0625
```

```
[11]: # !sudo apt-get update
# !sudo apt-get install texlive-xetex texlive-fonts-recommended
# !jupyter nbconvert --log-level CRITICAL --to pdf ./fall2022_hw2.ipynb
```