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```

2 task2/USERS.txt

```
1  aviram.aloni,208377598
2  roizhv22,208648154
3  assafine,319091773
4  omerfree,208966820
```

IML Hackathon 2022

Aviram Aloni, Assaf Fine, Roi Zehavi, Omer Freeman

Describing the dataset

In our project, we decided to work on the second challenge: <u>Detecting Attributes of Breast Cancer.</u> The data given to us in this challenge is an actual medical data, provided by medical centers. As such, it has many missing values, free-text categories, and obviously contain a decent amount of noise. The training dataset contains 65,798 entries (across train and test), each with 34 features.

Cleaning and preprocessing

After taking a brief look at the data, we decided to brainstorm together, in order to analyze and better understand each and every feature given. Some features were easy to figure out, some were unclear and required some medical background to understand. We checked, for each feature, its unique values in the dataset, and its distribution. This helped us with understanding the feature, its valid values (or values range), how a missing value of this feature looks like, and most importantly, how should we categories this feature values, and how to treat a new value of this feature, when preprocessing new data. Generally, we decided to categorize the values in each feature using different techniques, such as dummy nodes, detecting regular expressions and categorizing accordingly, averaging for multi-decimal value features, and many more. As the dataset contains quiet a lot of features, we decided to give up on some features that we thought were irrelevant for the prediction, or to merge some together in order to create new features, which we believe describe all merged features better. In some features, there were unique values that stood out for being extra uncommon - in those cases we usually decided to give up on all specific samples containing them.

Part 1: Predicting Metastases

Exploring data analysis

Our main effort was trying to figure out the relationships and correlation between different features, in order to choose a general agenda for our learning algorithm. Measuring the Pierson correlation between the different features made us realize that many features have a distinct linkage to other features, so we decided to go for a complex multi label model – instead of a simple one which do not assume connection between the different features.

Considerations that guided our design of the learning systems

When first reading the challenge, we realized that we're facing a multi-label, multi-class categories learning problem. So, our main consideration was how to train our model. As multi-label problems were not discussed in class, we tried to figure out ourselves what solutions may target the problem most precisely. Eventually, 3 main approaches came into consideration: the first one, was to train 11 different models, as each model is linked to a specific breast cancer type, and after that – to combine all predictions, to create a multi label prediction for each sample. We eventually rejected this approach as many links were found among different features. The second approach was fitting a model over the power set of all breast cancer types, and the third one was training a neural network, which outputs a 11 entries vector, using the SoftMax function, to show the probability risk for each type of cancer – and then using thresholds to derive labels in the expected format.

After careful thought, we decided to use scikit's Multilabel k Nearest Neighbors model. The reason for giving up on the second approach was mainly because we believed that the power set was a bit too big, which might

cause some samples to be misclassified. As for the third approach - even though we thought that targeting our learning problem with neural networks is the best option, we had to give up on it due to technical issues and lack of knowledge in the neural networks field.

Baseline

In order to understand how our dataset behaves, and to get a sense of the problem's complexity (after it was preprocessed), we decided to use a baseline - a naive approach against which we'll compare more complex models. Our chosen baseline was decision stamp. We've decided to split our training data into train and validation sets, and with that to fit and test our stamp with. Unsurprisingly, we got high accuracy value, which implies some overfit of the model over the training set. In order to handle this issue we decided to drop off duplicate samples in our dataset.

Our learning system

We decided to use the KNN model to target out learning problem for several reasons, the main one was that KNN is a learning model which is fast and simple – but yet strong and powerful. Also, as it is obvious that our learning problem has non-linear decision boundaries, when using KNN, we can come up with a highly flexible decision boundary adjusting the value of k.

Choosing hyperparameters
In the graphs below, we can see the f1 score error as a function of k – the number of neighbors used by the algorithm. We tried to find a spot where k is large enough to allow a good expressivity of our data, and on the other hand, a k small enough to not cause our model to underfit the data.
Eventually, we decided to choose k=25, which had a f1 score value of 0.56989. The use of this k value shows nice f1 scores, and its large enough to express our data well.

Figure 1.1 & Figure 1.2: The F1 score as a function of K (number of neighbors)
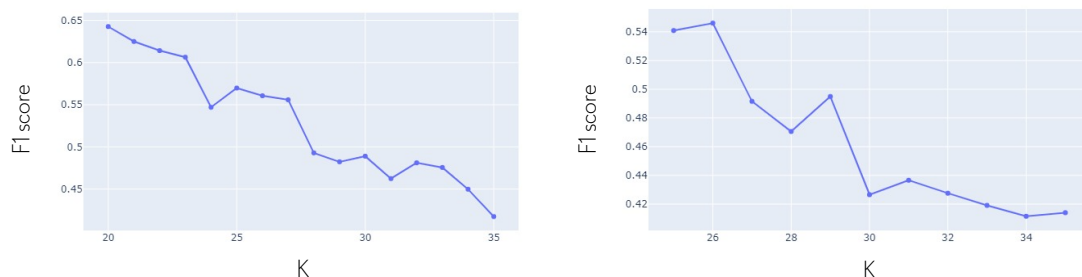
FINAL RESULTS: Micro f1: 0.6575 Macro f1: 0.4917

Part 2: Predicting Tumor Size

Exploring data analysis

In this part, we were asked to predict the diagnosed tumor size of patients. We tried to understand better the distribution and scale of the labels – to do so, we plotted a histogram of the tumor size (attached below).

Figure 2: Tumor size histogram
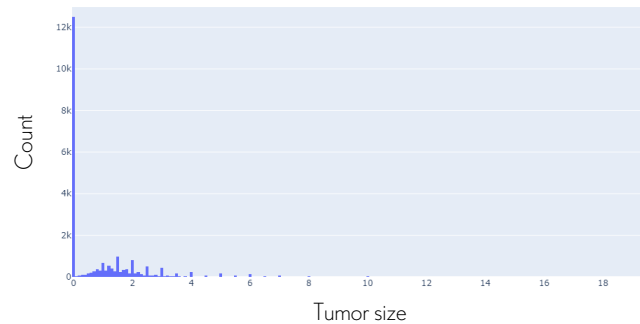
Considerations that guided our design of the learning systems

As the second learning problem we were required to handle was a regression problem, we decided to consider some regression models which we thought suite the problem best: linear regression, ridge regression and decision tree regressor. We trained and tested each and every model described before, and evaluated their behavior on our data. We also tried to enhance the models' performances, using kernels and ensemblers like random forest.

Our learning system

After examination all 3 regression models on our data, we decided to choose random forest regressor as our learning model. In the graph below (figure 3) we can see the MSE value as a function of the regularization parameter value (lambda).

Figure 3: MSE as a function of the RF regularization parameter
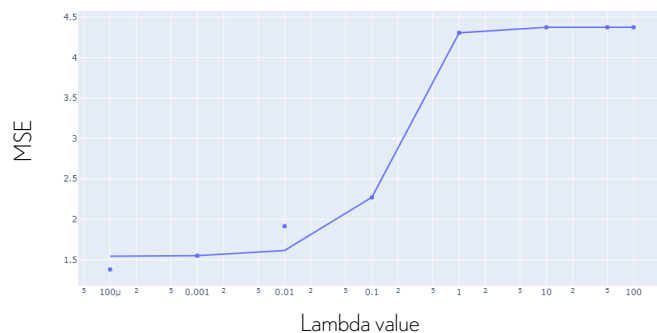
FINAL RESULTS: MSE: 0.7018

4 task2/part1/classifier.py

```python
import ast
import re
import pandas as pd
import numpy as np
from skmultilearn.adapt import MLkNN

BASIC_STAGE = 'אבחנה-Basic stage'
DIAGNOSTIC_DATE = 'אבחנה-Diagnosis date'
LYMPHOVASCULAR = 'אבחנה-Ivi -Lymphovascular invasion'
METASTASES_MARK = 'אבחנה-M -metastases mark (TNM)'
MARGIN_TYPE = 'אבחנה-Margin Type'
SIDE_TYPE = 'אבחנה-Side'
STAGE = 'אבחנה-Stage'
POSITIVE_NODES = 'אבחנה-Positive nodes'
TUMOR_DEPTH = 'אבחנה-Tumor depth'
TUMOR_WIDTH = 'אבחנה-Tumor width'
FROM_NAME = ' Form Name'
LABEL_DICT = {}
TRAIN_LABELS = {'LYM - Lymph nodes', 'BON - Bones', 'SKI - Skin',
                'HEP - Hepatic',
                'PLE - Pleura', 'PUL - Pulmonary', 'BRA - Brain',
                'MAR - Bone Marrow',
                'ADR - Adrenals', 'OTH - Other', 'PER - Peritoneum'}

"""
Parsing function for different features
"""

def parse_HER2(word):
    neg_set = {"eg", "-", "akhkh", "ne", "שלי", "_", "no"}
    pos_set = {"pos", "os", "+", "חי", "po", "yes", "amp"}
    for n in neg_set:
        if n in word.lower():
            return -1
    for p in pos_set:
        if p in word.lower():
            return 1
    return 0


def parse_Histopatological_degree(word):
    word = word.lower()
    regex = [["g4", "gx", "un", "not"], ["g3", "poor"], ["g2", "mod"],
             ["g1", "well"]]
    for i in range(len(regex)):
        for pattern in regex[i]:
            if pattern in word:
                return i
    return -1


def parse_KI67(word):
    regx1 = re.match(".*?(\d+).*?(\d+).*", word)
    regx2 = re.match(".*?(\d+).*", word)
    if regx1:
        return np.average([int(i) for i in regx1.groups()])
    elif regx2:
        return regx2.groups()[0]
    if "low" in word.lower():
```

```python
60            return 10
61        if "high" in word.lower():
62            return 90
63        return -1
64
65
66    def parse_TNM(word):
67        if "1" in word:
68            return 1
69        elif "2" in word:
70            return 2
71        elif "3" in word:
72            return 3
73        elif "0" in word:
74            return 0
75        elif "4" in word:
76            return 4
77        elif "x" in word.lower():
78            return 5
79        return -1
80
81
82    def parse_Nodes_exam(word):
83        if word == "":
84            return 6
85        return int(word)
86
87
88    def parse_Nodes_exam_pos(word):
89        if word == "":
90            return 1
91        return int(word)
92
93
94    def is_surgery(col1, col2, col3):
95        res = []
96        for i in range(len(col1)):
97            if col1[i] == "" and col2[i] == "" and col3[i] == "":
98                res.append(0)
99            else:
100                res.append(1)
101        return pd.Series(data=res)
102
103
104    def parse_er_pr(word):
105        word = word.lower()
106        strong = {"st"}
107        weak = {"חלש", "we"}
108        if "eg" in word or "-" in word:
109            return 0
110        for st in strong:
111            if st in word:
112                return 3
113        for w in weak:
114            if w in word:
115                return 1
116
117        return 2
118
119
120    def extract_labels(labels_set):
121        res = set()
122        for lst in labels_set:
123            if lst == "":
124                continue
125            lst = ast.literal_eval(lst)
126            for v in lst:
127                res.add(v)
```

```python
128        return res
129
130
131    def preprocess_basic_stage(df):
132        df[df[BASIC_STAGE] == 'Null'] = np.NaN
133        return pd.get_dummies(df, columns=[BASIC_STAGE], prefix='stage')  # here
134
135
136    def preprocess_diagnosis_date(df):
137        df['diagnosis_date'] = pd.to_datetime(df[DIAGNOSTIC_DATE])
138        return df.drop(columns=DIAGNOSTIC_DATE)
139
140
141    def preprocess_lymphovascular_invasion(df):
142        return df.drop(columns=LYMPHOVASCULAR)
143
144
145    def preprocess_metastases_mark(df):
146        return pd.get_dummies(df, columns=[METASTASES_MARK],
147                              prefix='metastases_mark')
148
149
150    def preprocess_form_name(df):
151        return pd.get_dummies(df, columns=[FROM_NAME],
152                              prefix='form_name')  # HERE
153
154
155    def preprocess_margin_type(df):
156        return pd.get_dummies(df, columns=[MARGIN_TYPE], prefix='margin_type')
157
158
159    def preprocess_side_type(df):
160        return pd.get_dummies(df, columns=[SIDE_TYPE], prefix='side')
161
162
163    def preprocess_stage(df):
164        df.loc[df[STAGE].isna() & ~(df[POSITIVE_NODES].astype('float').notna() & (
165                df[POSITIVE_NODES] > 0.5)), STAGE] = 'Stage1'
166        df.loc[df[STAGE].isna() & (df[POSITIVE_NODES].astype('float').notna() & (
167                df[POSITIVE_NODES] > 0.5)), STAGE] = 'Stage2a'
168        return pd.get_dummies(df, columns=[STAGE], prefix='stage')
169
170
171    def preprocess(df, preprocessors):
172        for preprocessor in preprocessors:
173            df = preprocessor(df)
174        return df
175
176
177    def parse_age(word):
178        if word == "":
179            return 55
180        return float(word)
181
182
183    def update_label_row(df):
184        for i, row in df.iterrows():
185            my_label = row["metastases_sites_raw"]
186            # print(row.index)
187            for col in row.index:
188                if col in my_label:
189                    df.at[i, col] = 1
190                else:
191                    df.at[i, col] = 0
192
193
194    def match_columns(df, expected_columns):
195        missing_columns = list(set(expected_columns) - set(df.columns))
```

```python
        excess_columns = list(set(df.columns) - set(expected_columns))
        df[missing_columns] = [0] * len(missing_columns)
        return df.drop(columns=excess_columns)


def parse_data(file_to_be_parsed: str, train_mode: bool):
    """
    file_to_be_parsed : .csv path to be parsed.
    This is the main parsing function - this creates the train, test,
    and label that were used during development.
    """
    pd.set_option('display.max_columns', None)
    train = pd.read_csv(file_to_be_parsed, encoding="UTF-8")
    train.drop_duplicates()

    # parse data
    train = preprocess(train, [preprocess_basic_stage,
                               preprocess_lymphovascular_invasion,
                               preprocess_metastases_mark,
                               preprocess_margin_type,
                               preprocess_side_type,
                               preprocess_stage,
                               preprocess_form_name
                               ])
    train = train.fillna("")
    train["אבחנה-Her2"] = train["אבחנה-Her2"].apply(parse_HER2)
    # delete the col diagnosis.
    train['אבחנה-Histopatological degree'] = train[
        'אבחנה-Histopatological degree']. \
        apply(parse_Histopatological_degree)
    train['אבחנה-KI67 protein'] = train['אבחנה-KI67 protein'].apply(parse_KI67)
    train['אבחנה-N -lymph nodes mark (TNM)'] = train[
        'אבחנה-N -lymph nodes mark (TNM)'].apply(parse_TNM)
    train['אבחנה-Nodes exam'] = train['אבחנה-Nodes exam']. \
        apply(parse_Nodes_exam)
    train['אבחנה-Positive nodes'] = train['אבחנה-Positive nodes']. \
        apply(parse_Nodes_exam_pos)
    train['אבחנה-Age'] = train['אבחנה-Age'].apply(parse_age)
    train['אבחנה-Surgery sum'] = train['אבחנה-Surgery sum'].apply(
        lambda x: 0 if x == "" else x)

    train.drop(columns=['אבחנה-Surgery date1', 'אבחנה-Lymphatic penetration',
                        'אבחנה-Surgery name3',
                        'surgery before or after-Activity date',
                        'id-hushed_internalpatientid', ' Hospital',
                        DIAGNOSTIC_DATE,
                        'אבחנה-Surgery date2', 'אבחנה-Surgery date3',
                        'אבחנה-Surgery name1', 'User Name',
                        'אבחנה-Histological diagnosis'
        , 'אבחנה-Surgery name2', 'אבחנה-Surgery name2', 'אבחנה-Tumor depth',
                        'אבחנה-Tumor width'], inplace=True)

    # if train_mode:
    #     # 'Unnamed: 0'
    #     train.drop(columns=['Unnamed: 0'], inplace=True)

    train['אבחנה-T -Tumor mark (TNM)'] = train['אבחנה-T -Tumor mark (TNM)'] \
        .apply(parse_TNM)

    train['אבחנה-er'] = train['אבחנה-er'].apply(parse_er_pr)
    train['אבחנה-pr'] = train['אבחנה-pr'].apply(parse_er_pr)

    # make sure dummies cover all possible features in the train
    surgery_before_or_after_activity = {'בלוטות+למפקטומי-שד-כירו',
                                        'כריתה בגישה זעירה דרך העטרה-שד',
                                        'בלוטות+כריתה בגישה זעירה-שד',
                                        'שד למפקטומי-כירורגיה',
                                        'בלוטות+מסטקטומי-שד-כירו',
```

```python
                                        'קרינה תוך +בלוטות+למפקטומי-שד-כירו'
                                        ' ניתוחית (intrabeam)',
                                        'הוצאת בלוטות לימפה-כירור',
                                        'בלוטות בית שח.הוצ-שד-כיר',
                                        'שד מסטקטומי-כירורגיה',
                                        'שנוי מי/הוצ טבעת-לאפ-כיר'}

        intersect_sur = surgery_before_or_after_activity. \
            difference(train['surgery before or after-Actual activity'].unique())
        if len(intersect_sur) != 0:
            for val in intersect_sur:
                train.loc[len(train.index)] = \
                    {'surgery before or after-Actual activity': val}

        sub_df = pd.get_dummies(train['surgery before or after-Actual activity'])
        train = pd.concat((train, sub_df), axis=1)
        train.drop(columns=['surgery before or after-Actual activity'],
                   inplace=True)
        train.drop(train.tail(len(intersect_sur)).index, inplace=True)

        if train_mode:
            # Change labels the matrix
            label_df = pd.DataFrame(data=train['metastases_sites_raw'])
            labels = extract_labels(train['metastases_sites_raw'].unique())
            for label in TRAIN_LABELS:
                label_df[label] = [0 for _ in label_df.index]
            update_label_row(label_df)
            label_df.drop(columns=['metastases_sites_raw', ], inplace=True)
            train.drop(columns=['metastases_sites_raw'],
                       inplace=True)

            return train, label_df, list(labels)

        else:
            return train, None, None


def extract_output(arr):
    prediction = []
    for i in range(len(arr)):
        val = []
        for j in range(len(arr[0])):
            if arr[i][j] == 1:
                val.append(LABEL_DICT[j])
        # if val != "[":
        #     val = val[:-2]
        # val += "]"
        prediction.append(val)
    res = pd.DataFrame()
    res['אבחנה-Location of distal metastases'] = prediction
    # res.reset_index(drop=True, inplace=True)
    return res


if __name__ == "__main__":
    # X, y, labels = parse_data("train_data.csv", True)


    # test_X, test_y, test_labels = parse_data("test_data.csv", True)
    model = MLkNN(k=25)

    all_data, all_test, labels = parse_data("train.feats.csv", True)
    LABEL_DICT = {i: labels[i] for i in range(len(labels))}

    real_test, _1, _2 = parse_data("test.feats.csv", False)
    to_drop = list(set(all_data.columns).difference(set(real_test.columns)))
    all_data.drop(columns=to_drop, inplace=True)
```

```
332        model.fit(all_data, all_test.to_numpy())
333        pred = model.predict(real_test)
334        # create predictions
335        extract_output(pred.toarray()).to_csv("prediction.csv", index=False)
```

5 task2/part1/predictions.csv

```
1   אבחנה-Location of distal metastases
2   []
3   []
4   []
5   []
6   []
7   []
8   []
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16  ['BON - Bones']
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10003  *** THIS FILE HAD TOO MANY LINES AND WAS TRUNCATED ***
10004  **************************************************
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6 task2/part1/requirements.txt

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22 idna==3.3
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25 ipython-genutils==0.2.0
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29 jsonschema==4.4.0
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32 jupyter-server==1.13.5
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34 jupyterlab-pygments==0.1.2
35 jupyterlab-server==2.10.3
36 kiwisolver==1.3.1
37 MarkupSafe==2.1.0
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7 task2/part2/predictions.csv

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9715    1.221525897783392
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 9998   1.0658304014626747
 9999   1.0658304014626747
10000   1.0658304014626747
10001
10002   ****************************************************
10003   *** THIS FILE HAD TOO MANY LINES AND WAS TRUNCATED ***
10004   ****************************************************
```

8 task2/part2/regression.py

```python
1   import ast
2   import re
3
4   import pandas as pd
5   import sklearn
6   import itertools
7   import numpy as np
8   from sklearn.metrics import f1_score
9   import plotly.graph_objects as go
10  from sklearn.metrics import mean_squared_error as mse
11  from sklearn.ensemble import RandomForestRegressor
12
13  BASIC_STAGE = 'אבחנה-Basic stage'
14  DIAGNOSTIC_DATE = 'אבחנה-Diagnosis date'
15  LYMPHOVASCULAR = 'אבחנה-Ivi -Lymphovascular invasion'
16  METASTASES_MARK = 'אבחנה-M -metastases mark (TNM)'
17  MARGIN_TYPE = 'אבחנה-Margin Type'
18  SIDE_TYPE = 'אבחנה-Side'
19  STAGE = 'אבחנה-Stage'
20  POSITIVE_NODES = 'אבחנה-Positive nodes'
21  TUMOR_DEPTH = 'אבחנה-Tumor depth'
22  TUMOR_WIDTH = 'אבחנה-Tumor width'
23  FROM_NAME = ' Form Name'
24  LABEL_DICT = {}
25  TRAIN_LABELS = {'LYM - Lymph nodes', 'BON - Bones', 'SKI - Skin',
26                  'HEP - Hepatic',
27                  'PLE - Pleura', 'PUL - Pulmonary', 'BRA - Brain',
28                  'MAR - Bone Marrow',
29                  'ADR - Adrenals', 'OTH - Other', 'PER - Peritoneum'}
30
31
32  def parse_HER2(word):
33      neg_set = {"eg", "-", "akhkh", "ne", "שלי", "_", "no"}
34      pos_set = {"pos", "os", "+", "חי", "po", "yes", "amp"}
35      for n in neg_set:
36          if n in word.lower():
37              return -1
38      for p in pos_set:
39          if p in word.lower():
40              return 1
41      return 0
42
43
44  def parse_Histopatological_degree(word):
45      word = word.lower()
46      regex = [["g4", "gx", "un", "not"], ["g3", "poor"], ["g2", "mod"],
47               ["g1", "well"]]
48      for i in range(len(regex)):
49          for pattern in regex[i]:
50              if pattern in word:
51                  return i
52      return -1
53
54
55  def parse_KI67(word):
56      regx1 = re.match(".*?(\d+).*?(\d+).*", word)
57      regx2 = re.match(".*?(\d+).*", word)
58      if regx1:
59          return np.average([int(i) for i in regx1.groups()])
```

```
60        elif regx2:
61            return regx2.groups()[0]
62        if "low" in word.lower():
63            return 10
64        if "high" in word.lower():
65            return 90
66        return -1
67
68
69    def parse_TNM(word):
70        if "1" in word:
71            return 1
72        elif "2" in word:
73            return 2
74        elif "3" in word:
75            return 3
76        elif "0" in word:
77            return 0
78        elif "4" in word:
79            return 4
80        elif "x" in word.lower():
81            return 5
82        return -1
83
84
85    def parse_Nodes_exam(word):
86        if word == "":
87            return 6
88        return int(word)
89
90
91    def parse_Nodes_exam_pos(word):
92        if word == "":
93            return 1
94        return int(word)
95
96
97    def is_surgery(col1, col2, col3):
98        res = []
99        for i in range(len(col1)):
100            if col1[i] == "" and col2[i] == "" and col3[i] == "":
101                res.append(0)
102            else:
103                res.append(1)
104        return pd.Series(data=res)
105
106
107    def parse_er_pr(word):
108        word = word.lower()
109        strong = {"st"}
110        weak = {"חלש", "we"}
111        if "eg" in word or "-" in word:
112            return 0
113        for st in strong:
114            if st in word:
115                return 3
116        for w in weak:
117            if w in word:
118                return 1
119
120        return 2
121
122
123    def extract_labels(labels_set):
124        res = set()
125        for lst in labels_set:
126            if lst == "":
127                continue
```

```python
            lst = ast.literal_eval(lst)
            for v in lst:
                res.add(v)
    return res


def preprocess_basic_stage(df):
    df[df[BASIC_STAGE] == 'Null'] = np.NaN
    return pd.get_dummies(df, columns=[BASIC_STAGE], prefix='stage')  # here


def preprocess_diagnosis_date(df):
    df['diagnosis_date'] = pd.to_datetime(df[DIAGNOSTIC_DATE])
    return df.drop(columns=DIAGNOSTIC_DATE)


def preprocess_lymphovascular_invasion(df):
    return df.drop(columns=LYMPHOVASCULAR)


def preprocess_metastases_mark(df):
    return pd.get_dummies(df, columns=[METASTASES_MARK],
                          prefix='metastases_mark')


def preprocess_form_name(df):
    return pd.get_dummies(df, columns=[FROM_NAME],
                          prefix='form_name')  # HERE


def preprocess_margin_type(df):
    return pd.get_dummies(df, columns=[MARGIN_TYPE], prefix='margin_type')


def preprocess_side_type(df):
    return pd.get_dummies(df, columns=[SIDE_TYPE], prefix='side')


def preprocess_stage(df):
    df.loc[df[STAGE].isna() & ~(df[POSITIVE_NODES].astype('float').notna() & (
            df[POSITIVE_NODES] > 0.5)), STAGE] = 'Stage1'
    df.loc[df[STAGE].isna() & (df[POSITIVE_NODES].astype('float').notna() & (
            df[POSITIVE_NODES] > 0.5)), STAGE] = 'Stage2a'
    return pd.get_dummies(df, columns=[STAGE], prefix='stage')


def preprocess(df, preprocessors):
    for preprocessor in preprocessors:
        df = preprocessor(df)
    return df


def parse_age(word):
    if word == "":
        return 55
    return float(word)


def update_label_row(df):
    for i, row in df.iterrows():
        my_label = row["metastases_sites_raw"]
        # print(row.index)
        for col in row.index:
            if col in my_label:
                df.at[i, col] = 1
            else:
                df.at[i, col] = 0
```

```python
196
197    def match_columns(df, expected_columns):
198        missing_columns = list(set(expected_columns) - set(df.columns))
199        excess_columns = list(set(df.columns) - set(expected_columns))
200        df[missing_columns] = [0] * len(missing_columns)
201        return df.drop(columns=excess_columns)
202
203
204    def parse_data(df_to_parse, training_df=True):
205        """
206        file_to_be_parsed : .csv path to be parsed.
207        """
208        if training_df:
209            df_to_parse.drop_duplicates()
210
211        # parse data
212        df_to_parse = preprocess(df_to_parse, [preprocess_basic_stage,
213                                               preprocess_lymphovascular_invasion,
214                                               preprocess_metastases_mark,
215                                               preprocess_margin_type,
216                                               preprocess_side_type,
217                                               preprocess_stage,
218                                               preprocess_form_name
219                                               ])
220        df_to_parse = df_to_parse.fillna("")
221        df_to_parse["אבחנה-Her2"] = df_to_parse["אבחנה-Her2"].apply(parse_HER2)
222        # delete the col diagnosis.
223        df_to_parse['אבחנה-Histopatological degree'] = df_to_parse[
224            'אבחנה-Histopatological degree']. \
225            apply(parse_Histopatological_degree)
226        df_to_parse['אבחנה-KI67 protein'] = df_to_parse[
227            'אבחנה-KI67 protein'].apply(parse_KI67)
228        df_to_parse['אבחנה-N -lymph nodes mark (TNM)'] = df_to_parse[
229            'אבחנה-N -lymph nodes mark (TNM)'].apply(parse_TNM)
230        df_to_parse['אבחנה-Nodes exam'] = df_to_parse['אבחנה-Nodes exam']. \
231            apply(parse_Nodes_exam)
232        df_to_parse['אבחנה-Positive nodes'] = df_to_parse['אבחנה-Positive nodes']. \
233            apply(parse_Nodes_exam_pos)
234        df_to_parse['אבחנה-Age'] = df_to_parse['אבחנה-Age'].apply(parse_age)
235        df_to_parse['אבחנה-Surgery sum'] = df_to_parse['אבחנה-Surgery sum'].apply(
236            lambda x: 0 if x == "" else x)
237
238        df_to_parse.drop(
239            columns=['אבחנה-Surgery date1', 'אבחנה-Lymphatic penetration',
240                     'אבחנה-Surgery name3',
241                     'surgery before or after-Activity date',
242                     'id-hushed_internalpatientid', ' Hospital',
243                     # 'Unnamed: 0', DIAGNOSTIC_DATE,
244                     'אבחנה-Surgery date2', 'אבחנה-Surgery date3',
245                     'אבחנה-Surgery name1', 'User Name',
246                     'אבחנה-Histological diagnosis'
247                  , 'אבחנה-Surgery name2', 'אבחנה-Surgery name2',
248                     'אבחנה-Tumor depth',
249                     'אבחנה-Tumor width'], inplace=True)
250        df_to_parse['אבחנה-T -Tumor mark (TNM)'] = df_to_parse[
251            'אבחנה-T -Tumor mark (TNM)'] \
252            .apply(parse_TNM)
253
254        df_to_parse['אבחנה-er'] = df_to_parse['אבחנה-er'].apply(parse_er_pr)
255        df_to_parse['אבחנה-pr'] = df_to_parse['אבחנה-pr'].apply(parse_er_pr)
256
257        # make sure dummies cover all possible features in the df_to_parse
258        surgery_before_or_after_activity = {'כירו-שד-למפקטומי+בלוטות',
259                                            'שד-העטרה דרך זעירה בגישה כריתה',
260                                            'שד-זעירה בגישה כריתה+בלוטות',
261                                            'כירורגיה-למפקטומי שד',
262                                            'כירו-שד-מסטקטומי+בלוטות',
263                                            'כירו-שד-למפקטומי+בלוטות תוך קרינה'
```

314

```python
                                        '(intrabeam) ניתוחית ',
                                        'הוצאת בלוטות לימפה-כירור',
                                        'בלוטות בית שח.הוצ-שד-כיר',
                                        'שד מסטקטומי-כירורגיה',
                                        'שנוי מי/הוצ טבעת-לאפ-כיר'}

        intersect_sur = surgery_before_or_after_activity. \
            difference(
            df_to_parse['surgery before or after-Actual activity'].unique())
        if len(intersect_sur) != 0:
            for val in intersect_sur:
                df_to_parse.loc[len(df_to_parse.index)] = \
                    {'surgery before or after-Actual activity': val}

        sub_df = pd.get_dummies(
            df_to_parse['surgery before or after-Actual activity'])
        df_to_parse = pd.concat((df_to_parse, sub_df), axis=1)
        df_to_parse.drop(columns=['surgery before or after-Actual activity'],
                         inplace=True)
        df_to_parse.drop(df_to_parse.tail(len(intersect_sur)).index, inplace=True)

        # Change labels the matrix
        # label_df = pd.DataFrame(data=df_to_parse['metastases_sites_raw'])
        # labels = extract_labels(df_to_parse['metastases_sites_raw'].unique())
        # for label in TRAIN_LABELS:
        #     label_df[label] = [0 for _ in label_df.index]
        # update_label_row(label_df)
        # label_df.drop(columns=['metastases_sites_raw', ], inplace=True)
        # df_to_parse.drop(columns=['metastases_sites_raw', 'is_malignant'], inplace=True)

        # return df_to_parse, label_df, list(labels)
        if training_df:
            df_to_parse = df_to_parse[
                ['אבחנה-Age', 'אבחנה-Her2', 'אבחנה-Histopatological degree',
                 'אבחנה-KI67 protein', 'אבחנה-N -lymph nodes mark (TNM)',
                 'אבחנה-Nodes exam', 'אבחנה-Positive nodes', 'אבחנה-Surgery sum',
                 'אבחנה-T -Tumor mark (TNM)', 'אבחנה-er', 'אבחנה-pr',
                 'אבחנה-Tumor size',
                 'stage_c - Clinical', 'stage_p - Pathological',
                 'metastases_mark_M0',
                 'metastases_mark_M1', 'metastases_mark_M1b',
                 'metastases_mark_MX', 'metastases_mark_Not yet Established',
                 'margin_type_ללא', 'margin_type_נגועים', 'margin_type_נקיים',
                 'side_דו צדדי', 'side_ימין', 'side_שמאל', 'stage_LA',
                 'stage_Stage0', 'stage_Stage0is',
                 'stage_Stage1', 'stage_Stage1b', 'stage_Stage1c',
                 'stage_Stage2', 'stage_Stage2a', 'stage_Stage2b', 'stage_Stage3',
                 'stage_Stage3a', 'stage_Stage3b', 'stage_Stage3c', 'stage_Stage4',
                 'form_name_אומדן סימפטומים ודיווח סיעודי',
                 'form_name_אנמנזה סיעודית',
                 'form_name_אנמנזה רפואית', 'form_name_אנמנזה סיעודית קצרה',
                 'form_name_ביקור במרפאה',
                 'form_name_אונקולוגית-ביקור במרפאה המטו',
                 'form_name_ביקור במרפאה קרינה', 'form_name_דיווח סיעודי', '',
                 'בלוטות בית שח.הוצ-שד-כיר', 'שנוי מי/הוצ טבעת-לאפ-כיר',
                 'בלוטות+למפקטומי-שד-כירו',
                 '(intrabeam)קרינה תוך ניתוחית + בלוטות+למפקטומי-שד-כיר',
                 'הוצאת בלוטות לימפה-כירור', 'בלוטות+מסטקטומי-שד-כירו',
                 'שד מסטקטומי-כירורגיה', 'שד למפקטומי-כירורגיה',
                 'בלוטות+כריתה בגישה זעירה-שד', 'כריתה בגישה זעירה דרך העטרה-שד']]
        else:
            df_to_parse = df_to_parse[
                ['אבחנה-Age', 'אבחנה-Her2', 'אבחנה-Histopatological degree',
                 'אבחנה-KI67 protein', 'אבחנה-N -lymph nodes mark (TNM)',
                 'אבחנה-Nodes exam', 'אבחנה-Positive nodes', 'אבחנה-Surgery sum',
                 'אבחנה-T -Tumor mark (TNM)', 'אבחנה-er', 'אבחנה-pr',
                 'stage_c - Clinical', 'stage_p - Pathological',
                 'metastases_mark_M0',
```

```
332                    'metastases_mark_M1',
333                    'metastases_mark_M1b',
334                    'metastases_mark_MX', 'metastases_mark_Not yet Established',
335                    'margin_type_ללא', 'margin_type_נגועים', 'margin_type_נקיים',
336                    'side_דו צדדי', 'side_ימין', 'side_שמאל', 'stage_LA',
337                    'stage_Stage0', 'stage_Stage0is',
338                    'stage_Stage1', 'stage_Stage1b', 'stage_Stage1c',
339                    'stage_Stage2', 'stage_Stage2a', 'stage_Stage2b', 'stage_Stage3',
340                    'stage_Stage3a', 'stage_Stage3b', 'stage_Stage3c', 'stage_Stage4',
341                    'form_name_אומדן סימפטומים ודיווח סיעודי',
342                    'form_name_אנמנזה סיעודית',
343                    'form_name_אנמנזה סיעודית קצרה', 'form_name_אנמנזה רפואית',
344                    'form_name_ביקור במרפאה',
345                    'form_name_אונקולוגית-ביקור במרפאה המטו',
346                    'form_name_דיווח סיעודי', '', 'form_name_ביקור במרפאה קרינה',
347                    'בלוטות בית שח.הוצ-שד-כיר', 'שנוי מי/הוצ טבעת-לאפ-כיר',
348                    'בלוטות+למפקטומי-שד-כירו',
349                    'קרינה תוך ניתוחית +בלוטות+למפקטומי-שד-כירו(intrabeam)',
350                    'הוצאת בלוטות לימפה-כירור', 'בלוטות+מסטקטומי-שד-כירו',
351                    'שד מסטקטומי-כירורגיה', 'שד למפקטומי-כירורגיה',
352                    'בלוטות+כריתה בגישה זעירה-שד', 'כריתה בגישה זעירה דרך העטרה-שד']]
353        return df_to_parse
354
355
356    def return_dfs(train_feat_file_name, train_labels_file_name,
357                   test_feats_file_name):
358        train_feats_df = pd.read_csv(train_feat_file_name, encoding="UTF-8")
359        train_labels_df = pd.read_csv(train_labels_file_name, encoding="UTF-8")
360        test_feats_df = pd.read_csv(test_feats_file_name, encoding="UTF-8")
361        train_df = pd.concat([train_feats_df, train_labels_df], axis=1)
362        return train_df, test_feats_df
363
364
365    if __name__ == "__main__":
366        # Train model
367        train_df, test_feats_df = return_dfs("train.feats.csv",
368                                             "train.labels.1.csv",
369                                             "test.feats.csv")  # require
370        parsed_train_df = parse_data(train_df)
371        parsed_train_df.drop(parsed_train_df[parsed_train_df['אבחנה-Tumor size']
372                                             == ''].index, inplace=True)
373        parsed_test_feats_df = parse_data(test_feats_df, False)
374        train_y = parsed_train_df['אבחנה-Tumor size']
375        rf = RandomForestRegressor(n_estimators=100, ccp_alpha=0.01).fit(
376            parsed_train_df.drop(columns='אבחנה-Tumor size'), train_y)
377
378        # Predict and save
379        predict_y = rf.predict(parsed_test_feats_df)
380        data = {'אבחנה-Tumor size': predict_y}
381        df_predict_y = pd.DataFrame(data)
382        df_predict_y.to_csv("predictions.csv", index=False)
```

9 task2/part2/requirements.txt

```
1  altgraph==0.17
2  anyio==3.5.0
3  argon2-cffi==21.3.0
4  argon2-cffi-bindings==21.2.0
5  asttokens==2.0.5
6  attrs==21.4.0
7  Babel==2.9.1
8  backcall==0.2.0
9  beautifulsoup4==4.10.0
10 bleach==4.1.0
11 certifi==2021.10.8
12 cffi==1.15.0
13 charset-normalizer==2.0.12
14 colorama==0.4.4
15 cycler==0.10.0
16 debugpy==1.5.1
17 decorator==5.1.1
18 defusedxml==0.7.1
19 entrypoints==0.4
20 executing==0.8.3
21 future==0.18.2
22 idna==3.3
23 ipykernel==6.9.1
24 ipython==8.1.1
25 ipython-genutils==0.2.0
26 jedi==0.18.1
27 Jinja2==3.0.3
28 json5==0.9.6
29 jsonschema==4.4.0
30 jupyter-client==7.1.2
31 jupyter-core==4.9.2
32 jupyter-server==1.13.5
33 jupyterlab==3.3.1
34 jupyterlab-pygments==0.1.2
35 jupyterlab-server==2.10.3
36 kiwisolver==1.3.1
37 MarkupSafe==2.1.0
38 matplotlib==3.4.2
39 matplotlib-inline==0.1.3
40 mistune==0.8.4
41 nbclassic==0.3.6
42 nbclient==0.5.13
43 nbconvert==6.4.4
44 nbformat==5.2.0
45 nest-asyncio==1.5.4
46 notebook==6.4.8
47 notebook-shim==0.1.0
48 numpy==1.20.3
49 packaging==21.3
50 pandocfilters==1.5.0
51 parso==0.8.3
52 pefile==2019.4.18
53 pickleshare==0.7.5
54 Pillow==8.2.0
55 prometheus-client==0.13.1
56 prompt-toolkit==3.0.28
57 pure-eval==0.2.2
58 pycparser==2.21
59 Pygments==2.11.2
```

```
60    pyinstaller==4.2
61    pyinstaller-hooks-contrib==2021.1
62    pyparsing==2.4.7
63    pyrsistent==0.18.1
64    python-dateutil==2.8.1
65    pytz==2021.3
66    pywin32==303
67    pywin32-ctypes==0.2.0
68    pywinpty==1.1.6
69    pyzmq==22.3.0
70    requests==2.27.1
71    Send2Trash==1.8.0
72    six==1.16.0
73    sniffio==1.2.0
74    soupsieve==2.3.1
75    stack-data==0.2.0
76    terminado==0.13.3
77    testpath==0.6.0
78    tornado==6.1
79    traitlets==5.1.1
80    urllib3==1.26.8
81    wcwidth==0.2.5
82    webencodings==0.5.1
83    websocket-client==1.3.1
84    scikit-multilearn==0.2.0
85    scikit-learn==1.1.1
86    scikit-multilearn==0.2.0
87    scipy==1.8.1
88    pandas==1.4.2
```