Microsoft Malware detection

1.Business/Real-world Problem

1.1. What is Malware?

- Term Malware refers to a variety of malicious software. For simply, malware is any piece of software that was written with the intent of doing harm to data, devices or people.

Source: https://www.techopedia.com/definition/2460/malware

1.2. Problem Statement

- In the past few years, the malware industry has grown very rapidly that, the principle motive towards is non-intrusive to avoid traditional signature-based detection. Microsoft has been collaborating with various security companies to characterize and classify such rapidly evolving and growth malware. **Our goal is to classify a computer being infected by a malware given a malware attack** and **to identify whether a given piece of files/software is a malware.**

1.3.Source/Useful Links

- **Microsoft has been very active in building such malware products over the years and it runs its anti-malware utilities over 150 million computers around the world. This generates tons of millions of daily data points to be analyzed as potential malware. In this competition, Microsoft is challenging the kaggle community with large volumes of data, and it would be able to grow these groups and identify their respective families.**

- **The dataset provided by Microsoft contains about 9 classes of malware .**

Source: https://www.kaggle.com/c/malware-classification

1.4. Real-world/Business objectives and constraints.

- **Minimize multi class error.**
- **Multi class probability estimate.**
- **Models interpretability should not be biased and block the user's computer. It should finish in a few seconds or a minute.**

2. Machine Learning Problem

2.1.Data

2.1.1. Data Overview

- **Source: https://www.kaggle.com/c/malware-classification/data**
- **Microsoft has provided two files:**
  - **.asm file based now: https://www.microsoft.com/en-sensecloud/**
  - **Bytes file or raw data contains the hexadecimal representation of the files binary contents, without the PE header.**
  - **Total train dataset consist of 10868 data out of which 4000 of data is .bytes files and 10868 of data is .asm files.**
  - **Total size of the dataset is 50 GB.**
  - **There are total 10,868 .bytes files and 10,868 .asm files total of 21,736 files.**
  - **Total size of the test dataset is 15 GB.**
  - **Types of Malware:**

1. Ramnit
2. Lollipop
3. Kelihos_ver3
4. Vundo
5. Simda
6. Tracur
7. Kelihos_ver1
8. Obfuscator.ACY
9. Gatak

2.1.2. Example Data Point

.asm file

```
cseg01:00401000                 assume cs:cseg_0, ss:cseg_0, ds:dseg_0, es:dseg_0,
cseg01:00401000                 ; ORG 0
cseg01:00401000 ?? ??           proc0_00:                               ; DATA XREF: .text:
cseg01:00401001 ?? ??                                                  ; .text:00401006
cseg01:00401002 ?? ??           proc0_02:                               ; DATA XREF: .text:
cseg01:00401003 ?? ??           proc0_03:                               ; DATA XREF: .text:
cseg01:00401004 ?? ??           proc0_04:                               ; DATA XREF: .text:
cseg01:00401005 ?? ??           proc0_05:                               ; DATA XREF: .text:
cseg01:00401006 ?? ??           proc0_06:                               ; DATA XREF: .text:
cseg01:00401007 ?? ??           proc0_07:                               ; DATA XREF: .text:
cseg01:00401008 ?? ??           proc0_08:                               ; DATA XREF: .text:
cseg01:00401009 ?? ??           proc0_09:                               ; DATA XREF: .text:
cseg01:0040100A ?? ??           proc0_0A:                               ; DATA XREF: .text:
cseg01:0040100B ?? ??           proc0_0B:                               ; DATA XREF: .text:
cseg01:0040100C ?? ??           proc0_0C:                               ; DATA XREF: .text:
cseg01:0040100D ?? ??           proc0_0D:                               ; DATA XREF: .text:
cseg01:0040100E ?? ??           proc0_0E:                               ; DATA XREF: .text:
cseg01:0040100F ?? ??           proc0_0F:                               ; DATA XREF: .text:
cseg01:00401010 ?? ??           proc0_10:                               ; DATA XREF: .text:
cseg01:00401011 ?? ??           proc0_11:                               ; DATA XREF: .text:
cseg01:00401012 ?? ??           proc0_12:                               ; DATA XREF: .text:
cseg01:00401013 ?? ??           proc0_13:                               ; DATA XREF: .text:
cseg01:00401014 ?? ??           proc0_14:                               ; DATA XREF: .text:
cseg01:00401015 ?? ??           proc0_15:                               ; DATA XREF: .text:
cseg01:00401016 ?? ??           proc0_16:                               ; DATA XREF: .text:
cseg01:00401017 ?? ??           proc0_17:                               ; DATA XREF: .text:
cseg01:00401018 ?? ??           proc0_18:                               ; DATA XREF: .text:
cseg01:00401019 ?? ??           proc0_19:                               ; DATA XREF: .text:
cseg01:0040101A ?? ??           proc0_1A:                               ; DATA XREF: .text:
cseg01:0040101B ?? ??           proc0_1B:                               ; DATA XREF: .text:
cseg01:0040101C ?? ??           proc0_1C:                               ; DATA XREF: .text:
cseg01:0040101D ?? ??           proc0_1D:                               ; DATA XREF: .text:
cseg01:0040101E ?? ??           proc0_1E:                               ; DATA XREF: .text:
cseg01:0040101F ?? ??           proc0_1F:                               ; DATA XREF: .text:
cseg01:00401020 ?? ??           proc0_20:                               ; DATA XREF: .text:
cseg01:00401021 ?? ??           proc0_21:                               ; DATA XREF: .text:
cseg01:00401022 ?? ??           proc0_22:                               ; DATA XREF: .text:
cseg01:00401023 ?? ??           proc0_23:                               ; DATA XREF: .text:
cseg01:00401024 ?? ??           proc0_24:                               ; DATA XREF: .text:
cseg01:00401025 ?? ??           proc0_25:                               ; DATA XREF: .text:
cseg01:00401026 ?? ??           proc0_26:                               ; DATA XREF: .text:
cseg01:00401027 ?? ??           proc0_27:                               ; DATA XREF: .text:
cseg01:00401028 ?? ??           proc0_28:                               ; DATA XREF: .text:
cseg01:00401029 ?? ??           proc0_29:                               ; DATA XREF: .text:
cseg01:0040102A ?? ??           proc0_2A:                               ; DATA XREF: .text:
cseg01:0040102B ?? ??           proc0_2B:                               ; DATA XREF: .text:
cseg01:0040102C ?? ??           proc0_2C:                               ; DATA XREF: .text:
cseg01:0040102D ?? ??           proc0_2D:                               ; DATA XREF: .text:
cseg01:0040102E ?? ??           proc0_2E:                               ; DATA XREF: .text:
cseg01:0040102F ?? ??           proc0_2F:                               ; DATA XREF: .text:
cseg01:00401030 ?? ??           proc0_30:                               ; DATA XREF: .text:
cseg01:00401031 ?? ??           proc0_31:                               ; DATA XREF: .text:
cseg01:00401032 ?? ??           proc0_32:                               ; DATA XREF: .text:
cseg01:00401033 ?? ??           proc0_33:                               ; DATA XREF: .text:
```

.bytes file

```
00A00000 8B 45 08 83 E8 58 74 2D 48 74 1A 48 74 07 33 C0 C3 B8 01 00 C3 90
00A00020 8B 45 08 83 E8 58 74 2D 48 74 1A 48 74 07 33 C0 C3 B8 01 00 C3 90
00A00040 8B 45 08 83 E8 58 74 2D 48 74 1A 48 74 07 33 C0 C3 B8 01 00 C3 90
00A00060 8B 45 08 83 E8 58 74 2D 48 74 1A 48 74 07 33 C0 C3 B8 01 00 C3 90
00A00080 8B 45 08 83 E8 58 74 2D 48 74 1A 48 74 07 33 C0 C3 B8 01 00 C3 90
00A000A0 8B 45 08 83 E8 58 74 2D 48 74 1A 48 74 07 33 C0 C3 B8 01 00 C3 90
00A000C0 8B 45 08 83 E8 58 74 2D 48 74 1A 48 74 07 33 C0 C3 B8 01 00 C3 90
00A000E0 8B 45 08 83 E8 58 74 2D 48 74 1A 48 74 07 33 C0 C3 B8 01 00 C3 90
00A00100 8B 45 08 83 E8 58 74 2D 48 74 1A 48 74 07 33 C0 C3 B8 01 00 C3 90
00A00120 8B 45 08 83 E8 58 74 2D 48 74 1A 48 74 07 33 C0 C3 B8 01 00 C3 90
00A00140 8B 45 08 83 E8 58 74 2D 48 74 1A 48 74 07 33 C0 C3 B8 01 00 C3 90
00A00160 8B 45 08 83 E8 58 74 2D 48 74 1A 48 74 07 33 C0 C3 B8 01 00 C3 90
00A00180 8B 45 08 83 E8 58 74 2D 48 74 1A 48 74 07 33 C0 C3 B8 01 00 C3 90
00A001A0 8B 45 08 83 E8 58 74 2D 48 74 1A 48 74 07 33 C0 C3 B8 01 00 C3 90
00A001C0 8B 45 08 83 E8 58 74 2D 48 74 1A 48 74 07 33 C0 C3 B8 01 00 C3 90
00A001E0 8B 45 08 83 E8 58 74 2D 48 74 1A 48 74 07 33 C0 C3 B8 01 00 C3 90
00A00200 8B 45 08 83 E8 58 74 2D 48 74 1A 48 74 07 33 C0 C3 B8 01 00 C3 90
00A00220 8B 45 08 83 E8 58 74 2D 48 74 1A 48 74 07 33 C0 C3 B8 01 00 C3 90
00A00240 8B 45 08 83 E8 58 74 2D 48 74 1A 48 74 07 33 C0 C3 B8 01 00 C3 90
00A00260 8B 45 08 83 E8 58 74 2D 48 74 1A 48 74 07 33 C0 C3 B8 01 00 C3 90
00A00280 8B 45 08 83 E8 58 74 2D 48 74 1A 48 74 07 33 C0 C3 B8 01 00 C3 90
00A002A0 8B 45 08 83 E8 58 74 2D 48 74 1A 48 74 07 33 C0 C3 B8 01 00 C3 90
00A002C0 8B 45 08 83 E8 58 74 2D 48 74 1A 48 74 07 33 C0 C3 B8 01 00 C3 90
00A002E0 8B 45 08 83 E8 58 74 2D 48 74 1A 48 74 07 33 C0 C3 B8 01 00 C3 90
00A00300 8B 45 08 83 E8 58 74 2D 48 74 1A 48 74 07 33 C0 C3 B8 01 00 C3 90
00A00320 8B 45 08 83 E8 58 74 2D 48 74 1A 48 74 07 33 C0 C3 B8 01 00 C3 90
00A00340 8B 45 08 83 E8 58 74 2D 48 74 1A 48 74 07 33 C0 C3 B8 01 00 C3 90
00A00360 8B 45 08 83 E8 58 74 2D 48 74 1A 48 74 07 33 C0 C3 B8 01 00 C3 90
00A00380 8B 45 08 83 E8 58 74 2D 48 74 1A 48 74 07 33 C0 C3 B8 01 00 C3 90
00A003A0 8B 45 08 83 E8 58 74 2D 48 74 1A 48 74 07 33 C0 C3 B8 01 00 C3 90
00A003C0 8B 45 08 83 E8 58 74 2D 48 74 1A 48 74 07 33 C0 C3 B8 01 00 C3 90
00A003E0 8B 45 08 83 E8 58 74 2D 48 74 1A 48 74 07 33 C0 C3 B8 01 00 C3 90
```

2.2. Mapping the real-world problem to an ML problem

2.2.1. Type of Machine Learning Problem

- **There are different classes of malware that we need to classify a given a data point -> Multi class classification problem**

2.2.2. Performance Metric

Source: https://www.kaggle.com/c/malware-classification

Metric(s):

- **Multi class log loss**
- **Confusion matrix**

2.2.3. Machine Learning Objectives and Constraints

Objective: Predict the probability of each data point belonging to each of the nine classes.

Constraints:

- **Minimize misclassification rate.**
- **Provide the class wise probabilities -> Metric is log loss.**
- **Interpretability constraints.**

2.3. Train and Test Dataset

Split the dataset randomly into three parts train, cross validation and test with 64%, 16%, 20% of data respectively.

2.4. Useful blogs, videos and reference papers

blog:https://medium.com/0ffh/009c85bd754f-microsoft-malware-winners-interview-1st-place-no-to-overfitting-
blog:https://www.kaggle.com/c/malware-classification
Free photo collection & Kaggle competition: https://www.yandex.ru/images/?rdt=1#cbir%2Cim
https://www.youtube.com/watch?v=ZuZ8Pb0ZpPI
https://www.arxiv.org/ftp/arxiv/papers/
https://www.drive.google.com/drive/u/0/search?q=type:application/vnd.google.apps.folder%20-0
Cross validation is more is better than Kaggle leaderboard.

3. Exploratory Data Analysis

```
# ~~~
```

[illegible]

[illegible]

```
0001 0F7A 0A0F 0A0A 0A0A 0A0A
0001 0F7B 0A0F 0A0A 0A0A 0A0A
0001 0F7C 0A0F 0A0A 0A0A 0A0A
0001 0F7D 0A0F 0A0A 0A0A 0A0A
0001 0F7E 0A0F 0A0A 0A0A 0A0A
0001 0F7F 0A0F 0A0A 0A0A 0A0A
0001 0F80 0A0F 0A0A 0A0A 0A0A
0001 0F81 0A0F 0A0A 0A0A 0A0A
0001 0F82 0A0F 0A0A 0A0A 0A0A
0001 0F83 0A0F 0A0A 0A0A 0A0A
0001 0F84 0A0F 0A0A 0A0A 0A0A
0001 0F85 0A0F 0A0A 0A0A 0A0A
0001 0F86 0A0F 0A0A 0A0A 0A0A
0001 0F87 0A0F 0A0A 0A0A 0A0A
0001 0F88 0A0F 0A0A 0A0A 0A0A
0001 0F89 0A0F 0A0A 0A0A 0A0A
0001 0F8A 0A0F 0A0A 0A0A 0A0A
0001 0F8B 0A0F 0A0A 0A0A 0A0A
0001 0F8C 0A0F 0A0A 0A0A 0A0A
0001 0F8D 0A0F 0A0A 0A0A 0A0A
0001 0F8E 0A0F 0A0A 0A0A 0A0A
0001 0F8F 0A0F 0A0A 0A0A 0A0A
0001 0F90 0A0F 0A0A 0A0A 0A0A
0001 0F91 0A0F 0A0A 0A0A 0A0A
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0001 0F94 0A0F 0A0A 0A0A 0A0A
0001 0F95 0A0F 0A0A 0A0A 0A0A
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0001 0F9C 0A0F 0A0A 0A0A 0A0A
0001 0F9D 0A0F 0A0A 0A0A 0A0A
0001 0F9E 0A0F 0A0A 0A0A 0A0A
0001 0F9F 0A0F 0A0A 0A0A 0A0A
0001 0FA0 0A0F 0A0A 0A0A 0A0A
0001 0FA1 0A0F 0A0A 0A0A 0A0A
0001 0FA2 0A0F 0A0A 0A0A 0A0A
0001 0FA3 0A0F 0A0A 0A0A 0A0A
0001 0FA4 0A0F 0A0A 0A0A 0A0A
0001 0FA5 0A0F 0A0A 0A0A 0A0A
0001 0FA6 0A0F 0A0A 0A0A 0A0A
0001 0FA7 0A0F 0A0A 0A0A 0A0A
0001 0FA8 0A0F 0A0A 0A0A 0A0A
0001 0FA9 0A0F 0A0A 0A0A 0A0A
0001 0FAA 0A0F 0A0A 0A0A 0A0A
0001 0FAB 0A0F 0A0A 0A0A 0A0A
0001 0FAC 0A0F 0A0A 0A0A 0A0A
0001 0FAD 0A0F 0A0A 0A0A 0A0A
0001 0FAE 0A0F 0A0A 0A0A 0A0A
0001 0FAF 0A0F 0A0A 0A0A 0A0A
0001 0FB0 0A0F 0A0A 0A0A 0A0A
0001 0FB1 0A0F 0A0A 0A0A 0A0A
0001 0FB2 0A0F 0A0A 0A0A 0A0A
0001 0FB3 0A0F 0A0A 0A0A 0A0A
0001 0FB4 0A0F 0A0A 0A0A 0A0A
0001 0FB5 0A0F 0A0A 0A0A 0A0A
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0001 0FB7 0A0F 0A0A 0A0A 0A0A
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0001 0FBA 0A0F 0A0A 0A0A 0A0A
0001 0FBB 0A0F 0A0A 0A0A 0A0A
0001 0FBC 0A0F 0A0A 0A0A 0A0A
0001 0FBD 0A0F 0A0A 0A0A 0A0A
0001 0FBE 0A0F 0A0A 0A0A 0A0A
0001 0FBF 0A0F 0A0A 0A0A 0A0A
0001 0FC0 0A0F 0A0A 0A0A 0A0A
0001 0FC1 0A0F 0A0A 0A0A 0A0A
0001 0FC2 0A0F 0A0A 0A0A 0A0A
0001 0FC3 0A0F 0A0A 0A0A 0A0A
0001 0FC4 0A0F 0A0A 0A0A 0A0A
0001 0FC5 0A0F 0A0A 0A0A 0A0A
0001 0FC6 0A0F 0A0A 0A0A 0A0A
0001 0FC7 0A0F 0A0A 0A0A 0A0A
0001 0FC8 0A0F 0A0A 0A0A 0A0A
0001 0FC9 0A0F 0A0A 0A0A 0A0A
0001 0FCA 0A0F 0A0A 0A0A 0A0A
0001 0FCB 0A0F 0A0A 0A0A 0A0A
0001 0FCC 0A0F 0A0A 0A0A 0A0A
0001 0FCD 0A0F 0A0A 0A0A 0A0A
0001 0FCE 0A0F 0A0A 0A0A 0A0A
0001 0FCF 0A0F 0A0A 0A0A 0A0A
0001 0FD0 0A0F 0A0A 0A0A 0A0A
0001 0FD1 0A0F 0A0A 0A0A 0A0A
0001 0FD2 0A0F 0A0A 0A0A 0A0A
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0001 0FDC 0A0F 0A0A 0A0A 0A0A
0001 0FDD 0A0F 0A0A 0A0A 0A0A
0001 0FDE 0A0F 0A0A 0A0A 0A0A
0001 0FDF 0A0F 0A0A 0A0A 0A0A
0001 0FE0 0A0F 0A0A 0A0A 0A0A
0001 0FE1 0A0F 0A0A 0A0A 0A0A
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0001 0FE3 0A0F 0A0A 0A0A 0A0A
0001 0FE4 0A0F 0A0A 0A0A 0A0A
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0001 0FE6 0A0F 0A0A 0A0A 0A0A
0001 0FE7 0A0F 0A0A 0A0A 0A0A
0001 0FE8 0A0F 0A0A 0A0A 0A0A
0001 0FE9 0A0F 0A0A 0A0A 0A0A
0001 0FEA 0A0F 0A0A 0A0A 0A0A
0001 0FEB 0A0F 0A0A 0A0A 0A0A
0001 0FEC 0A0F 0A0A 0A0A 0A0A
0001 0FED 0A0F 0A0A 0A0A 0A0A
0001 0FEE 0A0F 0A0A 0A0A 0A0A
0001 0FEF 0A0F 0A0A 0A0A 0A0A
0001 0FF0 0A0F 0A0A 0A0A 0A0A
0001 0FF1 0A0F 0A0A 0A0A 0A0A
0001 0FF2 0A0F 0A0A 0A0A 0A0A
0001 0FF3 0A0F 0A0A 0A0A 0A0A
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0001 0FF8 0A0F 0A0A 0A0A 0A0A
0001 0FF9 0A0F 0A0A 0A0A 0A0A
0001 0FFA 0A0F 0A0A 0A0A 0A0A
0001 0FFB 0A0F 0A0A 0A0A 0A0A
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0001 0FFD 0A0F 0A0A 0A0A 0A0A
0001 0FFE 0A0F 0A0A 0A0A 0A0A
0001 0FFF 0A0F 0A0A 0A0A 0A0A
0001 1000 0A0F 0A0A 0A0A 0A0A
0001 1001 0A0F 0A0A 0A0A 0A0A
0001 1002 0A0F 0A0A 0A0A 0A0A
0001 1003 0A0F 0A0A 0A0A 0A0A
0001 1004 0A0F 0A0A 0A0A 0A0A
0001 1005 0A0F 0A0A 0A0A 0A0A
0001 1006 0A0F 0A0A 0A0A 0A0A
0001 1007 0A0F 0A0A 0A0A 0A0A
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0001 1009 0A0F 0A0A 0A0A 0A0A
0001 100A 0A0F 0A0A 0A0A 0A0A
0001 100B 0A0F 0A0A 0A0A 0A0A
0001 100C 0A0F 0A0A 0A0A 0A0A
0001 100D 0A0F 0A0A 0A0A 0A0A
0001 100E 0A0F 0A0A 0A0A 0A0A
0001 100F 0A0F 0A0A 0A0A 0A0A
0001 1010 0A0F 0A0A 0A0A 0A0A
0001 1011 0A0F 0A0A 0A0A 0A0A
0001 1012 0A0F 0A0A 0A0A 0A0A
0001 1013 0A0F 0A0A 0A0A 0A0A
0001 1014 0A0F 0A0A 0A0A 0A0A
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0001 1016 0A0F 0A0A 0A0A 0A0A
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0001 101B 0A0F 0A0A 0A0A 0A0A
0001 101C 0A0F 0A0A 0A0A 0A0A
0001 101D 0A0F 0A0A 0A0A 0A0A
0001 101E 0A0F 0A0A 0A0A 0A0A
0001 101F 0A0F 0A0A 0A0A 0A0A
0001 1020 0A0F 0A0A 0A0A 0A0A
0001 1021 0A0F 0A0A 0A0A 0A0A
0001 1022 0A0F 0A0A 0A0A 0A0A
0001 1023 0A0F 0A0A 0A0A 0A0A
0001 1024 0A0F 0A0A 0A0A 0A0A
0001 1025 0A0F 0A0A 0A0A 0A0A
0001 1026 0A0F 0A0A 0A0A 0A0A
0001 1027 0A0F 0A0A 0A0A 0A0A
0001 1028 0A0F 0A0A 0A0A 0A0A
0001 1029 0A0F 0A0A 0A0A 0A0A
0001 102A 0A0F 0A0A 0A0A 0A0A
0001 102B 0A0F 0A0A 0A0A 0A0A
0001 102C 0A0F 0A0A 0A0A 0A0A
0001 102D 0A0F 0A0A 0A0A 0A0A
0001 102E 0A0F 0A0A 0A0A 0A0A
0001 102F 0A0F 0A0A 0A0A 0A0A
0001 1030 0A0F 0A0A 0A0A 0A0A
0001 1031 0A0F 0A0A 0A0A 0A0A
0001 1032 0A0F 0A0A 0A0A 0A0A
0001 1033 0A0F 0A0A 0A0A 0A0A
0001 1034 0A0F 0A0A 0A0A 0A0A
0001 1035 0A0F 0A0A 0A0A 0A0A
0001 1036 0A0F 0A0A 0A0A 0A0A
0001 1037 0A0F 0A0A 0A0A 0A0A
0001 1038 0A0F 0A0A 0A0A 0A0A
0001 1039 0A0F 0A0A 0A0A 0A0A
0001 103A 0A0F 0A0A 0A0A 0A0A
0001 103B 0A0F 0A0A 0A0A 0A0A
0001 103C 0A0F 0A0A 0A0A 0A0A
0001 103D 0A0F 0A0A 0A0A 0A0A
0001 103E 0A0F 0A0A 0A0A 0A0A
0001 103F 0A0F 0A0A 0A0A 0A0A
0001 1040 0A0F 0A0A 0A0A 0A0A
0001 1041 0A0F 0A0A 0A0A 0A0A
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[illegible]

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[illegible]

[illegible]

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[illegible]

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0x0f0a0b64,Trojan-Downloader.Win32.Agent.ldbr.exe
0x0f0a0b65,Trojan-Downloader.Win32.Agent.ldbr.exe
0x0f0a0b66,Trojan-Downloader.Win32.Agent.ldbr.exe
0x0f0a0b67,Trojan-Downloader.Win32.Agent.ldbr.exe
0x0f0a0b68,Trojan-Downloader.Win32.Agent.ldbr.exe
0x0f0a0b69,Trojan-Downloader.Win32.Agent.ldbr.exe
0x0f0a0b6a,Trojan-Downloader.Win32.Agent.ldbr.exe
0x0f0a0b6b,Trojan-Downloader.Win32.Agent.ldbr.exe
0x0f0a0b6c,Trojan-Downloader.Win32.Agent.ldbr.exe
0x0f0a0b6d,Trojan-Downloader.Win32.Agent.ldbr.exe
0x0f0a0b6e,Trojan-Downloader.Win32.Agent.ldbr.exe
0x0f0a0b6f,Trojan-Downloader.Win32.Agent.ldbr.exe
0x0f0a0b70,Trojan-Downloader.Win32.Agent.ldbr.exe
0x0f0a0b71,Trojan-Downloader.Win32.Agent.ldbr.exe
0x0f0a0b72,Trojan-Downloader.Win32.Agent.ldbr.exe
0x0f0a0b73,Trojan-Downloader.Win32.Agent.ldbr.exe
0x0f0a0b74,Trojan-Downloader.Win32.Agent.ldbr.exe
0x0f0a0b75,Trojan-Downloader.Win32.Agent.ldbr.exe
0x0f0a0b76,Trojan-Downloader.Win32.Agent.ldbr.exe
0x0f0a0b77,Trojan-Downloader.Win32.Agent.ldbr.exe
0x0f0a0b78,Trojan-Downloader.Win32.Agent.ldbr.exe
0x0f0a0b79,Trojan-Downloader.Win32.Agent.ldbr.exe
0x0f0a0b7a,Trojan-Downloader.Win32.Agent.ldbr.exe
0x0f0a0b7b,Trojan-Downloader.Win32.Agent.ldbr.exe
0x0f0a0b7c,Trojan-Downloader.Win32.Agent.ldbr.exe
0x0f0a0b7d,Trojan-Downloader.Win32.Agent.ldbr.exe
0x0f0a0b7e,Trojan-Downloader.Win32.Agent.ldbr.exe
0x0f0a0b7f,Trojan-Downloader.Win32.Agent.ldbr.exe
0x0f0a0b80,Trojan-Downloader.Win32.Agent.ldbr.exe
0x0f0a0b81,Trojan-Downloader.Win32.Agent.ldbr.exe
0x0f0a0b82,Trojan-Downloader.Win32.Agent.ldbr.exe
0x0f0a0b83,Trojan-Downloader.Win32.Agent.ldbr.exe
0x0f0a0b84,Trojan-Downloader.Win32.Agent.ldbr.exe
0x0f0a0b85,Trojan-Downloader.Win32.Agent.ldbr.exe
0x0f0a0b86,Trojan-Downloader.Win32.Agent.ldbr.exe
0x0f0a0b87,Trojan-Downloader.Win32.Agent.ldbr.exe
0x0f0a0b88,Trojan-Downloader.Win32.Agent.ldbr.exe
0x0f0a0b89,Trojan-Downloader.Win32.Agent.ldbr.exe
0x0f0a0b8a,Trojan-Downloader.Win32.Agent.ldbr.exe
0x0f0a0b8b,Trojan-Downloader.Win32.Agent.ldbr.exe
0x0f0a0b8c,Trojan-Downloader.Win32.Agent.ldbr.exe
0x0f0a0b8d,Trojan-Downloader.Win32.Agent.ldbr.exe
0x0f0a0b8e,Trojan-Downloader.Win32.Agent.ldbr.exe
0x0f0a0b8f,Trojan-Downloader.Win32.Agent.ldbr.exe
0x0f0a0b90,Trojan-Downloader.Win32.Agent.ldbr.exe
0x0f0a0b91,Trojan-Downloader.Win32.Agent.ldbr.exe
0x0f0a0b92,Trojan-Downloader.Win32.Agent.ldbr.exe
0x0f0a0b93,Trojan-Downloader.Win32.Agent.ldbr.exe
0x0f0a0b94,Trojan-Downloader.Win32.Agent.ldbr.exe
0x0f0a0b95,Trojan-Downloader.Win32.Agent.ldbr.exe
0x0f0a0b96,Trojan-Downloader.Win32.Agent.ldbr.exe
0x0f0a0b97,Trojan-Downloader.Win32.Agent.ldbr.exe
0x0f0a0b98,Trojan-Downloader.Win32.Agent.ldbr.exe
0x0f0a0b99,Trojan-Downloader.Win32.Agent.ldbr.exe
0x0f0a0b9a,Trojan-Downloader.Win32.Agent.ldbr.exe
0x0f0a0b9b,Trojan-Downloader.Win32.Agent.ldbr.exe
0x0f0a0b9c,Trojan-Downloader.Win32.Agent.ldbr.exe
0x0f0a0b9d,Trojan-Downloader.Win32.Agent.ldbr.exe
0x0f0a0b9e,Trojan-Downloader.Win32.Agent.ldbr.exe
0x0f0a0b9f,Trojan-Downloader.Win32.Agent.ldbr.exe
0x0f0a0ba0,Trojan-Downloader.Win32.Agent.ldbr.exe
0x0f0a0ba1,Trojan-Downloader.Win32.Agent.ldbr.exe
0x0f0a0ba2,Trojan-Downloader.Win32.Agent.ldbr.exe
0x0f0a0ba3,Trojan-Downloader.Win32.Agent.ldbr.exe
0x0f0a0ba4,Trojan-Downloader.Win32.Agent.ldbr.exe
0x0f0a0ba5,Trojan-Downloader.Win32.Agent.ldbr.exe
0x0f0a0ba6,Trojan-Downloader.Win32.Agent.ldbr.exe
0x0f0a0ba7,Trojan-Downloader.Win32.Agent.ldbr.exe
0x0f0a0ba8,Trojan-Downloader.Win32.Agent.ldbr.exe
0x0f0a0ba9,Trojan-Downloader.Win32.Agent.ldbr.exe
0x0f0a0baa,Trojan-Downloader.Win32.Agent.ldbr.exe
0x0f0a0bab,Trojan-Downloader.Win32.Agent.ldbr.exe
0x0f0a0bac,Trojan-Downloader.Win32.Agent.ldbr.exe
0x0f0a0bad,Trojan-Downloader.Win32.Agent.ldbr.exe
0x0f0a0bae,Trojan-Downloader.Win32.Agent.ldbr.exe
0x0f0a0baf,Trojan-Downloader.Win32.Agent.ldbr.exe
0x0f0a0bb0,Trojan-Downloader.Win32.Agent.ldbr.exe
0x0f0a0bb1,Trojan-Downloader.Win32.Agent.ldbr.exe
0x0f0a0bb2,Trojan-Downloader.Win32.Agent.ldbr.exe
0x0f0a0bb3,Trojan-Downloader.Win32.Agent.ldbr.exe
0x0f0a0bb4,Trojan-Downloader.Win32.Agent.ldbr.exe
0x0f0a0bb5,Trojan-Downloader.Win32.Agent.ldbr.exe
0x0f0a0bb6,Trojan-Downloader.Win32.Agent.ldbr.exe
0x0f0a0bb7,Trojan-Downloader.Win32.Agent.ldbr.exe
0x0f0a0bb8,Trojan-Downloader.Win32.Agent.ldbr.exe
0x0f0a0bb9,Trojan-Downloader.Win32.Agent.ldbr.exe
0x0f0a0bba,Trojan-Downloader.Win32.Agent.ldbr.exe
0x0f0a0bbb,Trojan-Downloader.Win32.Agent.ldbr.exe
0x0f0a0bbc,Trojan-Downloader.Win32.Agent.ldbr.exe
0x0f0a0bbd,Trojan-Downloader.Win32.Agent.ldbr.exe
0x0f0a0bbe,Trojan-Downloader.Win32.Agent.ldbr.exe
0x0f0a0bbf,Trojan-Downloader.Win32.Agent.ldbr.exe
0x0f0a0bc0,Trojan-Downloader.
```
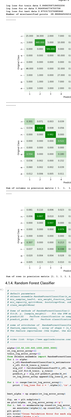

```
# read and split data (80%,20%)
X, y = pickle.load(open('data/fetch_20newsgroups_vectorized.p', 'rb'))
X = X[:-2000,:]
y = y[:-2000]
# shuffle and grab all 1000000 examples
X, y = sklearn.utils.shuffle(X, y, random_state=0)

# read and split data (60%,20%,20%)
X, y = pickle.load(open('data/fetch_20newsgroups_vectorized.p', 'rb'))
X = X[:-2000,:]
y = y[:-2000]
# shuffle and grab all 1000000 examples
X, y = sklearn.utils.shuffle(X, y, random_state=0)

# read and split data (binarized)
X, y = pickle.load(open('data/fetch_20newsgroups_vectorized.p', 'rb'))
y = (y == 1)
X = X[:-2000,:]
y = y[:-2000]
# shuffle and grab all 1000000 examples
X, y = sklearn.utils.shuffle(X, y, random_state=0)

# split data into training (60%) and validation (20%)
n_train = 0.6*X.shape[0]
X_train = X[:n_train, :]
y_train = y[:n_train]
X_val = X[n_train:, :]
y_val = y[n_train:]

# stack the validation and training sets together
X = scipy.sparse.vstack([X_train, X_val])
y = np.hstack([y_train, y_val])

# use the validation set as a single cross-validation fold
from sklearn.model_selection import PredefinedSplit
cv = PredefinedSplit(np.hstack([-1*np.ones(X_train.shape[0]), np.ones(X_val.shape[0])]))

# parameters to be tuned
parameters = {'alpha': [0.0001, 0.001, 0.01, 0.1, 1.0, 10.0]}

# find the best model using bayes search
from skopt import BayesSearchCV
clf = BayesSearchCV(sklearn.linear_model.SGDClassifier(loss='hinge', penalty='l2'),
                    parameters, cv=cv)
clf.fit(X, y)

# print the best parameters and score
print("Best parameters: ", clf.best_params_)
print("Best score: ", clf.best_score_)

# plot cross validation error for each alpha
import matplotlib.pyplot as plt
%matplotlib inline
plt.rcParams['figure.dpi'] = 150
plt.errorbar(parameters['alpha'], clf.cv_results_['mean_test_score'], yerr=clf.cv_results_['std_test_score'])
plt.ylabel('Validation Error')
plt.xlabel('Regularization Strength (alpha)')
plt.title('Cross Validation Error for each alpha')
plt.xticks(parameters['alpha'], parameters['alpha'])
plt.xlim(0.0001, 10.0)
plt.ylim(0.0, 0.5)

# print the cross validation error for each alpha
print("Cross Validation Error for each alpha")
for i in range(len(clf.cv_results_['mean_test_score'])):
    print("alpha = %f: %f (+/-%f)" % (clf.cv_results_['param_alpha'][i], clf.cv_results_['mean_test_score'][i], clf.cv_results_['std_test_score'][i]))
```

```
Best parameters:  {'alpha': 0.0001}
Best score:  0.9555000000000000
Cross Validation Error for each alpha
alpha = 0.000100: 0.955500 (+/-0.000000)
alpha = 0.001000: 0.955500 (+/-0.000000)
alpha = 0.010000: 0.955500 (+/-0.000000)
alpha = 0.100000: 0.955500 (+/-0.000000)
alpha = 1.000000: 0.955500 (+/-0.000000)
alpha = 10.000000: 0.955500 (+/-0.000000)
```

```
# read and split data (80%,20%)
X, y = pickle.load(open('data/fetch_20newsgroups_vectorized.p', 'rb'))
X = X[:-2000,:]
y = y[:-2000]
# shuffle and grab all 1000000 examples
X, y = sklearn.utils.shuffle(X, y, random_state=0)

# read and split data (60%,20%,20%)
X, y = pickle.load(open('data/fetch_20newsgroups_vectorized.p', 'rb'))
X = X[:-2000,:]
y = y[:-2000]
# shuffle and grab all 1000000 examples
X, y = sklearn.utils.shuffle(X, y, random_state=0)

# read and split data (binarized)
X, y = pickle.load(open('data/fetch_20newsgroups_vectorized.p', 'rb'))
y = (y == 1)
X = X[:-2000,:]
y = y[:-2000]
# shuffle and grab all 1000000 examples
X, y = sklearn.utils.shuffle(X, y, random_state=0)

# split data into training (60%) and validation (20%)
n_train = 0.6*X.shape[0]
X_train = X[:n_train, :]
y_train = y[:n_train]
X_val = X[n_train:, :]
y_val = y[n_train:]

# stack the validation and training sets together
X = scipy.sparse.vstack([X_train, X_val])
y = np.hstack([y_train, y_val])

# use the validation set as a single cross-validation fold
from sklearn.model_selection import PredefinedSplit
cv = PredefinedSplit(np.hstack([-1*np.ones(X_train.shape[0]), np.ones(X_val.shape[0])]))

# parameters to be tuned
parameters = {'alpha': [0.0001, 0.001, 0.01, 0.1, 1.0, 10.0]}

# find the best model using bayes search
from skopt import BayesSearchCV
clf = BayesSearchCV(sklearn.linear_model.SGDClassifier(loss='log', penalty='l2'),
                    parameters, cv=cv)
clf.fit(X, y)

# print the best parameters and score
print("Best parameters: ", clf.best_params_)
print("Best score: ", clf.best_score_)

# plot cross validation error for each alpha
import matplotlib.pyplot as plt
%matplotlib inline
plt.rcParams['figure.dpi'] = 150
plt.errorbar(parameters['alpha'], clf.cv_results_['mean_test_score'], yerr=clf.cv_results_['std_test_score'])
plt.ylabel('Validation Error')
plt.xlabel('Regularization Strength (alpha)')
plt.title('Cross Validation Error for each alpha')
plt.xticks(parameters['alpha'], parameters['alpha'])
plt.xlim(0.0001, 10.0)
plt.ylim(0.0, 0.5)

# print the cross validation error for each alpha
print("Cross Validation Error for each alpha")
for i in range(len(clf.cv_results_['mean_test_score'])):
    print("alpha = %f: %f (+/-%f)" % (clf.cv_results_['param_alpha'][i], clf.cv_results_['mean_test_score'][i], clf.cv_results_['std_test_score'][i]))
```

```
Best parameters:  {'alpha': 0.0001}
Best score:  0.9555000000000000
Cross Validation Error for each alpha
alpha = 0.000100: 0.955500 (+/-0.000000)
alpha = 0.001000: 0.955500 (+/-0.000000)
alpha = 0.010000: 0.955500 (+/-0.000000)
alpha = 0.100000: 0.955500 (+/-0.000000)
alpha = 1.000000: 0.955500 (+/-0.000000)
alpha = 10.000000: 0.955500 (+/-0.000000)
```



4.13. Logistic Regression

```
# read and split data (80%,20%) or http://scikit-learn.org/stable/datasets/twenty_newsgroups.html#usage
X, y = pickle.load(open('data/fetch_20newsgroups_vectorized.p', 'rb'))
# binarize
y = (y == 1)
# shuffle and grab all 1000000 examples
X, y = sklearn.utils.shuffle(X, y, random_state=0)
X = X[:1000000,:]
y = y[:1000000]

# split data into training (60%) and validation (20%)
n_train = 0.6*X.shape[0]
X_train = X[:n_train, :]
y_train = y[:n_train]
X_val = X[n_train:, :]
y_val = y[n_train:]

# stack the validation and training sets together
X = scipy.sparse.vstack([X_train, X_val])
y = np.hstack([y_train, y_val])

# use the validation set as a single cross-validation fold
from sklearn.model_selection import PredefinedSplit
cv = PredefinedSplit(np.hstack([-1*np.ones(X_train.shape[0]), np.ones(X_val.shape[0])]))

# parameters to be tuned
parameters = {'alpha': [0.0001, 0.001, 0.01, 0.1, 1.0, 10.0]}

# find the best model using bayes search
from skopt import BayesSearchCV
clf = BayesSearchCV(sklearn.linear_model.LogisticRegression(penalty='l2'),
                    parameters, cv=cv)
clf.fit(X, y)

# print the best parameters and score
print("Best parameters: ", clf.best_params_)
print("Best score: ", clf.best_score_)

# plot cross validation error for each alpha
import matplotlib.pyplot as plt
%matplotlib inline
plt.rcParams['figure.dpi'] = 150
plt.errorbar(parameters['alpha'], clf.cv_results_['mean_test_score'], yerr=clf.cv_results_['std_test_score'])
plt.ylabel('Validation Error')
plt.xlabel('Regularization Strength (alpha)')
plt.title('Cross Validation Error for each alpha')
plt.xticks(parameters['alpha'], parameters['alpha'])
plt.xlim(0.0001, 10.0)
plt.ylim(0.0, 0.5)

# print the cross validation error for each alpha
print("Cross Validation Error for each alpha")
for i in range(len(clf.cv_results_['mean_test_score'])):
    print("alpha = %f: %f (+/-%f)" % (clf.cv_results_['param_alpha'][i], clf.cv_results_['mean_test_score'][i], clf.cv_results_['std_test_score'][i]))
```

```
Best parameters:  {'alpha': 0.0001}
Best score:  0.9555000000000000
Cross Validation Error for each alpha
alpha = 0.000100: 0.955500 (+/-0.000000)
alpha = 0.001000: 0.955500 (+/-0.000000)
alpha = 0.010000: 0.955500 (+/-0.000000)
alpha = 0.100000: 0.955500 (+/-0.000000)
alpha = 1.000000: 0.955500 (+/-0.000000)
alpha = 10.000000: 0.955500 (+/-0.000000)
```

```
# read and split data (80%,20%)
X, y = pickle.load(open('data/fetch_20newsgroups_vectorized.p', 'rb'))
X = X[:-2000,:]
y = y[:-2000]
# shuffle and grab all 1000000 examples
X, y = sklearn.utils.shuffle(X, y, random_state=0)

# read and split data (60%,20%,20%)
X, y = pickle.load(open('data/fetch_20newsgroups_vectorized.p', 'rb'))
X = X[:-2000,:]
y = y[:-2000]
# shuffle and grab all 1000000 examples
X, y = sklearn.utils.shuffle(X, y, random_state=0)

# read and split data (binarized)
X, y = pickle.load(open('data/fetch_20newsgroups_vectorized.p', 'rb'))
y = (y == 1)
X = X[:-2000,:]
y = y[:-2000]
# shuffle and grab all 1000000 examples
X, y = sklearn.utils.shuffle(X, y, random_state=0)

# split data into training (60%) and validation (20%)
n_train = 0.6*X.shape[0]
X_train = X[:n_train, :]
y_train = y[:n_train]
X_val = X[n_train:, :]
y_val = y[n_train:]

# stack the validation and training sets together
X = scipy.sparse.vstack([X_train, X_val])
y = np.hstack([y_train, y_val])

# use the validation set as a single cross-validation fold
from sklearn.model_selection import PredefinedSplit
cv = PredefinedSplit(np.hstack([-1*np.ones(X_train.shape[0]), np.ones(X_val.shape[0])]))

# parameters to be tuned
parameters = {'alpha': [0.0001, 0.001, 0.01, 0.1, 1.0, 10.0]}

# find the best model using bayes search
from skopt import BayesSearchCV
clf = BayesSearchCV(sklearn.linear_model.LogisticRegression(penalty='l1', solver='liblinear'),
                    parameters, cv=cv)
clf.fit(X, y)

# print the best parameters and score
print("Best parameters: ", clf.best_params_)
print("Best score: ", clf.best_score_)

# plot cross validation error for each alpha
import matplotlib.pyplot as plt
%matplotlib inline
plt.rcParams['figure.dpi'] = 150
plt.errorbar(parameters['alpha'], clf.cv_results_['mean_test_score'], yerr=clf.cv_results_['std_test_score'])
plt.ylabel('Validation Error')
plt.xlabel('Regularization Strength (alpha)')
plt.title('Cross Validation Error for each alpha')
plt.xticks(parameters['alpha'], parameters['alpha'])
plt.xlim(0.0001, 10.0)
plt.ylim(0.0, 0.5)

# print the cross validation error for each alpha
print("Cross Validation Error for each alpha")
for i in range(len(clf.cv_results_['mean_test_score'])):
    print("alpha = %f: %f (+/-%f)" % (clf.cv_results_['param_alpha'][i], clf.cv_results_['mean_test_score'][i], clf.cv_results_['std_test_score'][i]))
```

```
Best parameters:  {'alpha': 0.0001}
Best score:  0.9555000000000000
Cross Validation Error for each alpha
alpha = 0.000100: 0.955500 (+/-0.000000)
alpha = 0.001000: 0.955500 (+/-0.000000)
alpha = 0.010000: 0.955500 (+/-0.000000)
alpha = 0.100000: 0.955500 (+/-0.000000)
alpha = 1.000000: 0.955500 (+/-0.000000)
alpha = 10.000000: 0.955500 (+/-0.000000)
```

4.14. Random Forest Classifier

```
# read and split data (80%,20%)
X, y = pickle.load(open('data/fetch_20newsgroups_vectorized.p', 'rb'))
X = X[:-2000,:]
y = y[:-2000]
# shuffle and grab all 1000000 examples
X, y = sklearn.utils.shuffle(X, y, random_state=0)

# read and split data (60%,20%,20%)
X, y = pickle.load(open('data/fetch_20newsgroups_vectorized.p', 'rb'))
X = X[:-2000,:]
y = y[:-2000]
# shuffle and grab all 1000000 examples
X, y = sklearn.utils.shuffle(X, y, random_state=0)

# read and split data (binarized)
X, y = pickle.load(open('data/fetch_20newsgroups_vectorized.p', 'rb'))
y = (y == 1)
X = X[:-2000,:]
y = y[:-2000]
# shuffle and grab all 1000000 examples
X, y = sklearn.utils.shuffle(X, y, random_state=0)

# split data into training (60%) and validation (20%)
n_train = 0.6*X.shape[0]
X_train = X[:n_train, :]
y_train = y[:n_train]
X_val = X[n_train:, :]
y_val = y[n_train:]

# stack the validation and training sets together
X = scipy.sparse.vstack([X_train, X_val])
y = np.hstack([y_train, y_val])

# use the validation set as a single cross-validation fold
from sklearn.model_selection import PredefinedSplit
cv = PredefinedSplit(np.hstack([-1*np.ones(X_train.shape[0]), np.ones(X_val.shape[0])]))

# parameters to be tuned
parameters = {'max_depth': [3, 10, None]}

# find the best model using bayes search
from skopt import BayesSearchCV
clf = BayesSearchCV(sklearn.ensemble.RandomForestClassifier(n_estimators=10),
                    parameters, cv=cv)
clf.fit(X, y)

# print the best parameters and score
print("Best parameters: ", clf.best_params_)
print("Best score: ", clf.best_score_)

# plot cross validation error for each alpha
import matplotlib.pyplot as plt
%matplotlib inline
plt.rcParams['figure.dpi'] = 150
plt.errorbar(parameters['max_depth'], clf.cv_results_['mean_test_score'], yerr=clf.cv_results_['std_test_score'])
plt.ylabel('Validation Error')
plt.xlabel('Regularization Strength (max_depth)')
plt.title('Cross Validation Error for each max_depth')
plt.xticks(parameters['max_depth'], parameters['max_depth'])
plt.xlim(3, None)
plt.ylim(0.0, 0.5)

# print the cross validation error for each max_depth
print("Cross Validation Error for each max_depth")
for i in range(len(clf.cv_results_['mean_test_score'])):
    print("max_depth = %f: %f (+/-%f)" % (clf.cv_results_['param_max_depth'][i], clf.cv_results_['mean_test_score'][i], clf.cv_results_['std_test_score'][i]))
```

```
Best parameters:  {'max_depth': None}
Best score:  0.9555000000000000
Cross Validation Error for each max_depth
max_depth = 3.000000: 0.955500 (+/-0.000000)
max_depth = 10.000000: 0.955500 (+/-0.000000)
max_depth = None: 0.955500 (+/-0.000000)
```


4.15. Xgboost Classification

```
# read and split data (80%,20%)
X, y = pickle.load(open('data/fetch_20newsgroups_vectorized.p', 'rb'))
X = X[:-2000,:]
y = y[:-2000]
# shuffle and grab all 1000000 examples
X, y = sklearn.utils.shuffle(X, y, random_state=0)

# read and split data (60%,20%,20%)
X, y = pickle.load(open('data/fetch_20newsgroups_vectorized.p', 'rb'))
X = X[:-2000,:]
y = y[:-2000]
# shuffle and grab all 1000000 examples
X, y = sklearn.utils.shuffle(X, y, random_state=0)

# read and split data (binarized)
X, y = pickle.load(open('data/fetch_20newsgroups_vectorized.p', 'rb'))
y = (y == 1)
X = X[:-2000,:]
y = y[:-2000]
# shuffle and grab all 1000000 examples
X, y = sklearn.utils.shuffle(X, y, random_state=0)

# split data into training (60%) and validation (20%)
n_train = 0.6*X.shape[0]
X_train = X[:n_train, :]
y_train = y[:n_train]
X_val = X[n_train:, :]
y_val = y[n_train:]

# stack the validation and training sets together
X = scipy.sparse.vstack([X_train, X_val])
y = np.hstack([y_train, y_val])

# use the validation set as a single cross-validation fold
from sklearn.model_selection import PredefinedSplit
cv = PredefinedSplit(np.hstack([-1*np.ones(X_train.shape[0]), np.ones(X_val.shape[0])]))

# parameters to be tuned
parameters = {'max_depth': [3, 10, None]}

# find the best model using bayes search
from skopt import BayesSearchCV
clf = BayesSearchCV(xgboost.sklearn.XGBClassifier(n_estimators=10, objective='binary:logistic'),
                    parameters, cv=cv)
clf.fit(X, y)

# print the best parameters and score
print("Best parameters: ", clf.best_params_)
print("Best score: ", clf.best_score_)

# plot cross validation error for each alpha
import matplotlib.pyplot as plt
%matplotlib inline
plt.rcParams['figure.dpi'] = 150
plt.errorbar(parameters['max_depth'], clf.cv_results_['mean_test_score'], yerr=clf.cv_results_['std_test_score'])
plt.ylabel('Validation Error')
plt.xlabel('Regularization Strength (max_depth)')
plt.title('Cross Validation Error for each max_depth')
plt.xticks(parameters['max_depth'], parameters['max_depth'])
plt.xlim(3, None)
plt.ylim(0.0, 0.5)

# print the cross validation error for each max_depth
print("Cross Validation Error for each max_depth")
for i in range(len(clf.cv_results_['mean_test_score'])):
    print("max_depth = %f: %f (+/-%f)" % (clf.cv_results_['param_max_depth'][i], clf.cv_results_['mean_test_score'][i], clf.cv_results_['std_test_score'][i]))
```

```
Best parameters:  {'max_depth': None}
Best score:  0.9555000000000000
Cross Validation Error for each max_depth
max_depth = 3.000000: 0.955500 (+/-0.000000)
max_depth = 10.000000: 0.955500 (+/-0.000000)
max_depth = None: 0.955500 (+/-0.000000)
```


4.16. Xgboost Classification with best hyper parameters using RandomSearch

```
# read and split data (80%,20%)
X, y = pickle.load(open('data/fetch_20newsgroups_vectorized.p', 'rb'))
X = X[:-2000,:]
y = y[:-2000]
# shuffle and grab all 1000000 examples
X, y = sklearn.utils.shuffle(X, y, random_state=0)

# read and split data (60%,20%,20%)
X, y = pickle.load(open('data/fetch_20newsgroups_vectorized.p', 'rb'))
X = X[:-2000,:]
y = y[:-2000]
# shuffle and grab all 1000000 examples
X, y = sklearn.utils.shuffle(X, y, random_state=0)

# read and split data (binarized)
X, y = pickle.load(open('data/fetch_20newsgroups_vectorized.p', 'rb'))
y = (y == 1)
X = X[:-2000,:]
y = y[:-2000]
# shuffle and grab all 1000000 examples
X, y = sklearn.utils.shuffle(X, y, random_state=0)

# split data into training (60%) and validation (20%)
n_train = 0.6*X.shape[0]
X_train = X[:n_train, :]
y_train = y[:n_train]
X_val = X[n_train:, :]
y_val = y[n_train:]

# stack the validation and training sets together
X = scipy.sparse.vstack([X_train, X_val])
y = np.hstack([y_train, y_val])

# use the validation set as a single cross-validation fold
from sklearn.model_selection import PredefinedSplit
cv = PredefinedSplit(np.hstack([-1*np.ones(X_train.shape[0]), np.ones(X_val.shape[0])]))

# parameters to be tuned
parameters = {'max_depth': [3, 10, None]}

# find the best model using bayes search
from skopt import BayesSearchCV
clf = BayesSearchCV(xgboost.sklearn.XGBClassifier(n_estimators=10, objective='binary:logistic',
                    colsample_bytree=0.7, gamma=0.1, learning_rate=0.075, min_child_weight=1, reg_alpha=0.75, reg_lambda=0.45, subsample=0.6),
                    parameters, cv=cv)
clf.fit(X, y)

# print the best parameters and score
print("Best parameters: ", clf.best_params_)
print("Best score: ", clf.best_score_)

# plot cross validation error for each alpha
import matplotlib.pyplot as plt
%matplotlib inline
plt.rcParams['figure.dpi'] = 150
plt.errorbar(parameters['max_depth'], clf.cv_results_['mean_test_score'], yerr=clf.cv_results_['std_test_score'])
plt.ylabel('Validation Error')
plt.xlabel('Regularization Strength (max_depth)')
plt.title('Cross Validation Error for each max_depth')
plt.xticks(parameters['max_depth'], parameters['max_depth'])
plt.xlim(3, None)
plt.ylim(0.0, 0.5)

# print the cross validation error for each max_depth
print("Cross Validation Error for each max_depth")
for i in range(len(clf.cv_results_['mean_test_score'])):
    print("max_depth = %f: %f (+/-%f)" % (clf.cv_results_['param_max_depth'][i], clf.cv_results_['mean_test_score'][i], clf.cv_results_['std_test_score'][i]))
```

```
Best parameters:  {'max_depth': None}
Best score:  0.9555000000000000
Cross Validation Error for each max_depth
max_depth = 3.000000: 0.955500 (+/-0.000000)
max_depth = 10.000000: 0.955500 (+/-0.000000)
max_depth = None: 0.955500 (+/-0.000000)
```


4.17. Xgboost Classification with best hyper parameters using RandomSearch

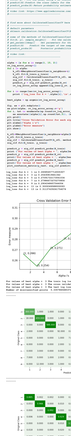
```
# read and split data (80%,20%)
X, y = pickle.load(open('data/fetch_20newsgroups_vectorized.p', 'rb'))
X = X[:-2000,:]
y = y[:-2000]
# shuffle and grab all 1000000 examples
X, y = sklearn.utils.shuffle(X, y, random_state=0)

# read and split data (60%,20%,20%)
X, y = pickle.load(open('data/fetch_20newsgroups_vectorized.p', 'rb'))
X = X[:-2000,:]
y = y[:-2000]
# shuffle and grab all 1000000 examples
X, y = sklearn.utils.shuffle(X, y, random_state=0)

# read and split data (binarized)
X, y = pickle.load(open('data/fetch_20newsgroups_vectorized.p', 'rb'))
y = (y == 1)
X = X[:-2000,:]
y = y[:-2000]
# shuffle and grab all 1000000 examples
X, y = sklearn.utils.shuffle(X, y, random_state=0)

# split data into training (60%) and validation (20%)
n_train = 0.6*X.shape[0]
X_train = X[:n_train, :]
y_train = y[:n_train]
X_val = X[n_train:, :]
y_val = y[n_train:]

# stack the validation and training sets together
X = scipy.sparse.vstack([X_train, X_val])
y = np.hstack([y_train, y_val])

# use the validation set as a single cross-validation fold
from sklearn.model_selection import PredefinedSplit
cv = PredefinedSplit(np.hstack([-1*np.ones(X_train.shape[0]), np.ones(X_val.shape[0])]))

# parameters to be tuned
parameters = {'max_depth': [3, 10, None]}

# find the best model using bayes search
from skopt import BayesSearchCV
clf = BayesSearchCV(xgboost.sklearn.XGBClassifier(n_estimators=10, objective='binary:logistic',
                    colsample_bytree=0.7, gamma=0.1, learning_rate=0.075, min_child_weight=1, reg_alpha=0.75, reg_lambda=0.45, subsample=0.6),
                    parameters, cv=cv)
clf.fit(X, y)

# print the best parameters and score
print("Best parameters: ", clf.best_params_)
print("Best score: ", clf.best_score_)

# plot cross validation error for each alpha
import matplotlib.pyplot as plt
%matplotlib inline
plt.rcParams['figure.dpi'] = 150
plt.errorbar(parameters['max_depth'], clf.cv_results_['mean_test_score'], yerr=clf.cv_results_['std_test_score'])
plt.ylabel('Validation Error')
plt.xlabel('Regularization Strength (max_depth)')
plt.title('Cross Validation Error for each max_depth')
plt.xticks(parameters['max_depth'], parameters['max_depth'])
plt.xlim(3, None)
plt.ylim(0.0, 0.5)

# print the cross validation error for each max_depth
print("Cross Validation Error for each max_depth")
for i in range(len(clf.cv_results_['mean_test_score'])):
    print("max_depth = %f: %f (+/-%f)" % (clf.cv_results_['param_max_depth'][i], clf.cv_results_['mean_test_score'][i], clf.cv_results_['std_test_score'][i]))
```

```
Best parameters:  {'max_depth': None}
Best score:  0.9555000000000000
Cross Validation Error for each max_depth
max_depth = 3.000000: 0.955500 (+/-0.000000)
max_depth = 10.000000: 0.955500 (+/-0.000000)
max_depth = None: 0.955500 (+/-0.000000)
```


4.2 Modeling with .sum files

```
# read and split data (80%,20%)
X, y = pickle.load(open('data/fetch_20newsgroups_vectorized.p', 'rb'))
X = X[:-2000,:]
y = y[:-2000]
# shuffle and grab all 1000000 examples
X, y = sklearn.utils.shuffle(X, y, random_state=0)

# read and split data (60%,20%,20%)
X, y = pickle.load(open('data/fetch_20newsgroups_vectorized.p', 'rb'))
X = X[:-2000,:]
y = y[:-2000]
# shuffle and grab all 1000000 examples
X, y = sklearn.utils.shuffle(X, y, random_state=0)

# read and split data (binarized)
X, y = pickle.load(open('data/fetch_20newsgroups_vectorized.p', 'rb'))
y = (y == 1)
X = X[:-2000,:]
y = y[:-2000]
# shuffle and grab all 1000000 examples
X, y = sklearn.utils.shuffle(X, y, random_state=0)

# split data into training (60%) and validation (20%)
n_train = 0.6*X.shape[0]
X_train = X[:n_train, :]
y_train = y[:n_train]
X_val = X[n_train:, :]
y_val = y[n_train:]

# stack the validation and training sets together
X = scipy.sparse.vstack([X_train, X_val])
y = np.hstack([y_train, y_val])

# use the validation set as a single cross-validation fold
from sklearn.model_selection import PredefinedSplit
cv = PredefinedSplit(np.hstack([-1*np.ones(X_train.shape[0]), np.ones(X_val.shape[0])]))

# parameters to be tuned
parameters = {'n_estimators': [1, 5, 10, 50, 100], 'max_depth': [3, 10, None], 'learning_rate': [0.01, 0.1], 'colsample_bytree': [0.5, 0.7], 'min_child_weight': [1, 3], 'gamma': [0.1, 0.3], 'reg_alpha': [0.25, 0.75], 'reg_lambda': [0.45, 0.65], 'subsample': [0.6, 0.8]}

# find the best model using bayes search
from skopt import BayesSearchCV
clf = BayesSearchCV(xgboost.sklearn.XGBClassifier(objective='binary:logistic'),
                    parameters, cv=cv)
clf.fit(X, y)

# print the best parameters and score
print("Best parameters: ", clf.best_params_)
print("Best score: ", clf.best_score_)

# plot cross validation error for each alpha
import matplotlib.pyplot as plt
%matplotlib inline
plt.rcParams['figure.dpi'] = 150
plt.errorbar(parameters['max_depth'], clf.cv_results_['mean_test_score'], yerr=clf.cv_results_['std_test_score'])
plt.ylabel('Validation Error')
plt.xlabel('Regularization Strength (max_depth)')
plt.title('Cross Validation Error for each max_depth')
plt.xticks(parameters['max_depth'], parameters['max_depth'])
plt.xlim(3, None)
plt.ylim(0.0, 0.5)

# print the cross validation error for each max_depth
print("Cross Validation Error for each max_depth")
for i in range(len(clf.cv_results_['mean_test_score'])):
    print("max_depth = %f: %f (+/-%f)" % (clf.cv_results_['param_max_depth'][i], clf.cv_results_['mean_test_score'][i], clf.cv_results_['std_test_score'][i]))
```

```
Best parameters:  {'max_depth': None}
Best score:  0.9555000000000000
Cross Validation Error for each max_depth
max_depth = 3.000000: 0.955500 (+/-0.000000)
max_depth = 10.000000: 0.955500 (+/-0.000000)
max_depth = None: 0.955500 (+/-0.000000)
```

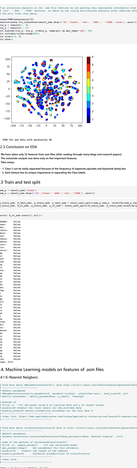



```
# read and split data (80%,20%)
X, y = pickle.load(open('data/fetch_20newsgroups_vectorized.p', 'rb'))
X = X[:-2000,:]
y = y[:-2000]
# shuffle and grab all 1000000 examples
X, y = sklearn.utils.shuffle(X, y, random_state=0)

# read and split data (60%,20%,20%)
X, y = pickle.load(open('data/fetch_20newsgroups_vectorized.p', 'rb'))
X = X[:-2000,:]
y = y[:-2000]
# shuffle and grab all 1000000 examples
X, y = sklearn.utils.shuffle(X, y, random_state=0)

# read and split data (binarized)
X, y = pickle.load(open('data/fetch_20newsgroups_vectorized.p', 'rb'))
y = (y == 1)
X = X[:-2000,:]
y = y[:-2000]
# shuffle and grab all 1000000 examples
X, y = sklearn.utils.shuffle(X, y, random_state=0)

# split data into training (60%) and validation (20%)
n_train = 0.6*X.shape[0]
X_train = X[:n_train, :]
y_train = y[:n_train]
X_val = X[n_train:, :]
y_val = y[n_train:]

# stack the validation and training sets together
X = scipy.sparse.vstack([X_train, X_val])
y = np.hstack([y_train, y_val])

# use the validation set as a single cross-validation fold
from sklearn.model_selection import PredefinedSplit
cv = PredefinedSplit(np.hstack([-1*np.ones(X_train.shape[0]), np.ones(X_val.shape[0])]))

# parameters to be tuned
parameters = {'n_estimators': [1, 5, 10, 50, 100], 'max_depth': [3, 10, None], 'learning_rate': [0.01, 0.1], 'colsample_bytree': [0.5, 0.7], 'min_child_weight': [1, 3], 'gamma': [0.1, 0.3], 'reg_alpha': [0.25, 0.75], 'reg_lambda': [0.45, 0.65], 'subsample': [0.6, 0.8]}

# find the best model using bayes search
from skopt import BayesSearchCV
clf = BayesSearchCV(xgboost.sklearn.XGBClassifier(objective='binary:logistic'),
                    parameters, cv=cv)
clf.fit(X, y)

# print the best parameters and score
print("Best parameters: ", clf.best_params_)
print("Best score: ", clf.best_score_)

# plot cross validation error for each alpha
import matplotlib.pyplot as plt
%matplotlib inline
plt.rcParams['figure.dpi'] = 150
plt.errorbar(parameters['max_depth'], clf.cv_results_['mean_test_score'], yerr=clf.cv_results_['std_test_score'])
plt.ylabel('Validation Error')
plt.xlabel('Regularization Strength (max_depth)')
plt.title('Cross Validation Error for each max_depth')
plt.xticks(parameters['max_depth'], parameters['max_depth'])
plt.xlim(3, None)
plt.ylim(0.0, 0.5)

# print the cross validation error for each max_depth
print("Cross Validation Error for each max_depth")
for i in range(len(clf.cv_results_['mean_test_score'])):
    print("max_depth = %f: %f (+/-%f)" % (clf.cv_results_['param_max_depth'][i], clf.cv_results_['mean_test_score'][i], clf.cv_results_['std_test_score'][i]))
```

```
Best parameters:  {'max_depth': None}
Best score:  0.9555000000000000
Cross Validation Error for each max_depth
max_depth = 3.000000: 0.955500 (+/-0.000000)
max_depth = 10.000000: 0.955500 (+/-0.000000)
max_depth = None: 0.955500 (+/-0.000000)
```

```
# 3D scatterplot visualization for PAC and PAC2 Mahalanobis and non-parametric Kernel Density Estimation (KDE)
# Assumes pac_df, pac2_df, and kde_df are already defined from the previous analysis.
# Ensure plotly is installed: install.packages("plotly")
library(plotly)
cat("Generating 3D scatterplot for PAC and PAC2 (Mahalanobis)...\n")
pac_3d_plot <- plot_ly(pac_df, x = ~PAC1, y = ~PAC2, z = ~Mahalanobis_Distance,
color = ~Subject,
type = "scatter3d", mode = "markers", marker = list(size = 3))
pac_3d_plot <- layout(pac_3d_plot, title = "3D Scatterplot: PAC1 vs PAC2 vs Mahalanobis Distance")
print(pac_3d_plot)
```

```
Generating 3D scatterplot for PAC and PAC2 (Mahalanobis)...
```




```
# 3D scatterplot for PAC and PAC2 Kernel Density Estimation (KDE)
cat("Generating 3D scatterplot for PAC and PAC2 (KDE)...\n")
pac_kde_3d_plot <- plot_ly(kde_df, x = ~PAC1, y = ~PAC2, z = ~KDE, color = ~Subject,
type = "scatter3d", mode = "markers", marker = list(size = 3))
pac_kde_3d_plot <- layout(pac_kde_3d_plot, title = "3D Scatterplot: PAC1 vs PAC2 vs KDE")
print(pac_kde_3d_plot)
```

```
Generating 3D scatterplot for PAC and PAC2 (KDE)...
```

```
# Save the pac data with probabilities
write.csv(pac_df, "pac_with_probs.csv")
```

4.2.3 Conclusion on EDA

- **We have taken only 5 features from pac files after reading through many things and research papers**
- **Mahalanobis distance and kde are only the important features**
- **Two ways:**
  - **1. Use it as the easily assumed because of the frequency of segments/epochs and frequents being low**
  - **2. Scale features for unique importance in separating the Class labels.**

4.3 Train and test split

```
head(pac_df)
table(pac_df$Subject)
```

```
  PAC1 PAC2 Mahalanobis_Distance Subject
1 0.00 0.00                 0.00    Ana1
2 0.00 0.00                 0.00    Ana1
3 0.00 0.00                 0.00    Ana1
4 0.00 0.00                 0.00    Ana1
5 0.00 0.00                 0.00    Ana1
6 0.00 0.00                 0.00    Ana1

Ana1 Ana2 Ana3 Ana4 Ana5 Ana6 Ana7 Ana8 Ana9 Ana10 Ana11 Ana12 Ana13 Ana14 Ana15
Ana16 Ana17 Ana18 Ana19 Ana20 Ana21 Ana22 Ana23 Ana24 Ana25 Ana26 Ana27 Ana28
Ana29 Ana30 Ana31 Ana32 Ana33 Ana34 Ana35 Ana36 Ana37 Ana38 Ana39 Ana40
```

```
log_loss for c = 10: 0.4811
log_loss for c = 20: 0.4811
log_loss for c = 30: 0.4811
log_loss for c = 40: 0.4811
log_loss for c = 50: 0.4811
log_loss for c = 60: 0.4811
log_loss for c = 70: 0.4811
log_loss for c = 80: 0.4811
log_loss for c = 90: 0.4811
log_loss for c = 100: 0.4811
```

Cross Validation Error for each alpha
Log Loss - 0.4811
0.4811
0.4811

$$\begin{bmatrix} 0 \\ 0 \\ 0 \\

```
```

```
```
```

```
```
```

```
```

```
[ 0.0 0.0
 0.0 0.0
 0.0 0.0
```

```
[0.0,1.0]
[0.0,1.0]
[0.0,1.0]
```