



中南大學

CENTRAL SOUTH UNIVERSITY

黄品溢个人学习笔记

Title _____ FGRMER 复现

Tips _____ Learning Notes From 2022.06.14

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第一章 过程中遇到的疑问

1.1 未完待续

第二章 论文代码

2.1 7 分类

使用代码进行 7 分类时，效果不佳，识别率在 40% 左右。7 个微表情的类别分别是：快乐、悲伤、厌恶、恐惧、惊讶、压抑和紧张。

```

LOSO 1: Accuracy: 0.6667, F1-Score: 0.5333
LOSO 2: Accuracy: 0.9286, F1-Score: 0.8942
LOSO 3: Accuracy: 0.6000, F1-Score: 0.4500
LOSO 4: Accuracy: 0.0833, F1-Score: 0.0128
LOSO 5: Accuracy: 0.7500, F1-Score: 0.6429
LOSO 6: Accuracy: 0.2500, F1-Score: 0.1000
LOSO 7: Accuracy: 0.0000, F1-Score: 0.0000
LOSO 8: Accuracy: 0.2500, F1-Score: 0.1000
LOSO 9: Accuracy: 0.0833, F1-Score: 0.0128
LOSO 10: Accuracy: 1.0000, F1-Score: 1.0000
LOSO 11: Accuracy: 0.2500, F1-Score: 0.1000
LOSO 12: Accuracy: 0.0000, F1-Score: 0.0000
LOSO 13: Accuracy: 0.8182, F1-Score: 0.7364
LOSO 14: Accuracy: 0.5000, F1-Score: 0.3333
LOSO 15: Accuracy: 0.0000, F1-Score: 0.0000
LOSO 16: Accuracy: 0.3333, F1-Score: 0.1667
LOSO 17: Accuracy: 0.2000, F1-Score: 0.0667
LOSO 18: Accuracy: 0.2857, F1-Score: 0.1270
LOSO 19: Accuracy: 0.2941, F1-Score: 0.1337
LOSO 20: Accuracy: 0.2857, F1-Score: 0.1270
LOSO 21: Accuracy: 0.5000, F1-Score: 0.3333
LOSO 22: Accuracy: 0.6316, F1-Score: 0.4890
LOSO 23: Accuracy: 0.2000, F1-Score: 0.0667
LOSO 24: Accuracy: 0.4444, F1-Score: 0.2735
LOSO 25: Accuracy: 0.6667, F1-Score: 0.5333
LOSO 26: Accuracy: 0.2143, F1-Score: 0.0756
Total: Accuracy 0.3937, F1-Score: 0.2811

```

图 2.1 使用 LOSO 方法进行 7 分类任务时的效果（旧）

2.2 4 分类

进行 4 分类任务时，需要将 7 分类转化为 4 类，其分类方法如下：

table 1 关于 7 类微表情与 4 类微表情的对应关系

4 类微表情	7 类微表情
positive	happiness
negative	sadness, disgust, fear
surprise	surprise
others	repression, tenseness