**RAVDESS (split train/test/val 0.7/0.2/0.1), dla MFCC i eGEMAPS oraz dla wszystkich modeli poza CNN dane były standaryzowane i usuwane były atrybuty skorelowane**

|  |  |  |  |
| --- | --- | --- | --- |
| Accuracy/Recall | **MFCC** | **eGEMAPSv2** | **Wav2Vec** |
| **SVM (C=100)** | 0.593/0.587 | 0.6/0.598 | 0.498/0.489 |
| **RF (split po entropii, max-depth 12)** | 0.531/0.527 | 0.615/0.614 | 0.371/0.365 |
| **LR (C=50, max-iter=1000)** | 0.386/0.38 | 0.572/0.569 | 0.497/0.494 |
| **MLP (max-iter=500)** | 0.514/0.504 | 0.618/0.608 | 0.452/0.441 |
| **DT** | 0.336/0.328 | 0.372/0.361 | 0.277/0.285 |
| **GBT (subsample=0.5)** | 0.449/0.437 | 0.604/0.595 | 0.372/0.352 |
| **CNN (architektury w kodzie)** | 0.703/0.685 | 0.665/0.643 | 0.38/0.365 |

**RAVDESS (split train/test/val po aktorach [1-20]/[21,22]/[23,24]), dla MFCC i eGEMAPS oraz dla wszystkich modeli poza CNN dane były standaryzowane i usuwane były atrybuty skorelowane**

|  |  |  |  |
| --- | --- | --- | --- |
| Accuracy/Recall | **MFCC** | **eGEMAPSv2** | **Wav2Vec** |
| **SVM (C=100)** | 0.292/0.273 | 0.325/0.367 | 0.425/0.445 |
| **RF (split po entropii, max-depth 12)** | 0.240/0.224 | 0.463/0.444 | 0.322/0.311 |
| **LR (C=50, max-iter=1000)** | 0.275/0.258 | 0.458/0.461 | 0.483/0.484 |
| **MLP (max-iter=500)** | 0.272/0.253 | 0.287/0.322 | 0.425/0.422 |
| **DT** | 0.187/0.176 | 0.285/0.272 | 0.227/0.229 |
| **GBT (subsample=0.5)** | 0.232/0.217 | 0.502/0.487 | 0.305/0.308 |
| **CNN (architektury w kodzie)** | 0.357/0.331 | 0.595/0.585 |  |

**RAVDESS, wszystko jak w tabeli 1, dane znormalizowane po aktorach:**

|  |  |  |  |
| --- | --- | --- | --- |
| Accuracy/Recall | **MFCC** | **eGEMAPSv2** | **Wav2Vec** |
| **SVM (C=100)** | 0.505/0.505 | 0.663/0.657 |  |
| **RF (split po entropii, max-depth 12)** | 0.527/0.521 | 0.631/0.628 |  |
| **LR (C=50, max-iter=1000)** | 0.470/0.476 | 0.612/0.625 |  |
| **MLP (max-iter=500)** | 0.510/0.511 | 0.636/0.631 |  |
| **DT** | 0.323/0.313 | 0.436/0.439 |  |
| **GBT (subsample=0.5)** | 0.493/0.491 | 0.628/0.627 |  |
| **CNN (architektury w kodzie)** | 0.657/0.647 | 0.670/0.645 |  |

**RAVDESS, wszystko jak w tabeli 2, dane znormalizowane po aktorach:**

|  |  |  |  |
| --- | --- | --- | --- |
| Accuracy/Recall | **MFCC** | **eGEMAPSv2** | **Wav2Vec** |
| **SVM (C=100)** | 0.367/0.359 | 0.617/0.586 |  |
| **RF (split po entropii, max-depth 12)** | 0.397/0.394 | 0.503/0.470 |  |
| **LR (C=50, max-iter=1000)** | 0.325/0.328 | 0.625/0.602 |  |
| **MLP (max-iter=500)** | 0.362/0.348 | 0.623/0.592 |  |
| **DT** | 0.257/0.248 | 0.405/0.399 |  |
| **GBT (subsample=0.5)** | 0.333/0.326 | 0.577/0.565 |  |
| **CNN (architektury w kodzie)** | 0.487/0.486 | 0.612/0.603 |  |

**MELD parametry modeli jak dla RAVDESS-a**

|  |  |  |  |
| --- | --- | --- | --- |
| Accuracy/Recall | **MFCC** | **eGEMAPSv2** | **Wav2Vec** |
| **SVM (class-weight=’balanced’)** | 0.261/0.166 | 0.341/0.183 | 0.371/0.168 |
| **RF (class-weight=’balanced’)** | 0.414/0.179 | 0.452/0.184 | 0.455/0.156 |
| **LR (class-weight=’balanced’)** | 0.205/0.203 | 0.231/0.238 | 0.178/0.176 |
| **MLP** | 0.463/0.164 | 0.363/0.191 | 0.349/0.162 |
| **DT (class-weight=’balanced’)** | 0.297/0.155 | 0.295/0.155 | 0.287/0.143 |
| **GBT** | 0.468/0.161 | 0.461/0.171 | 0.452/0.145 |
| **CNN (architektury w kodzie, dla MFCC zbalansowany zbiór poprzez resampling)** | 0.278/0.196 | - | 0.481/0.149 |

Dev Loss 1.1696869134902954, Accuracy: 0.5833333134651184 Average recall: 0.5654761904761905, 960h, -1 bez dodakowych warstw zmergowane klasy

Dev Loss 1.3348640203475952, Accuracy: 0.4749999940395355 Average recall: 0.4609375 -1, brak zmergowanych klas