**[cleaned data] Validation results without smoothing**

ALL\_45fold\_64u\_C\_16ws\_6f

Mean val\_loss: 0.2237 +/- 0.0200

[last] Mean bacc: 0.7980 +/- 0.0222

[last] Mean f1: 0.6856 +/- 0.0364

[last] Mean precision: 0.7620 +/- 0.0356

[last] Mean recall: 0.6245 +/- 0.0451

[majority] Mean bacc: 0.7708 +/- 0.0225

[majority] Mean f1: 0.6600 +/- 0.0393

[majority] Mean precision: 0.8024 +/- 0.0379

[majority] Mean recall: 0.5616 +/- 0.0449

ALL\_45fold\_64u\_C\_16ws\_12f

Mean val\_loss: 0.2252 +/- 0.0275

[last] Mean bacc: 0.8027 +/- 0.0248

[last] Mean f1: 0.6912 +/- 0.0389

[last] Mean precision: 0.7610 +/- 0.0429

[last] Mean recall: 0.6351 +/- 0.0501

[majority] Mean bacc: 0.7788 +/- 0.0248

[majority] Mean f1: 0.6692 +/- 0.0422

[majority] Mean precision: 0.7936 +/- 0.0456

[majority] Mean recall: 0.5800 +/- 0.0488

ALL\_45fold\_64u\_C\_32ws\_6f

Mean val\_loss: 0.2140 +/- 0.0269

[last] Mean bacc: 0.8019 +/- 0.0258

[last] Mean f1: 0.6902 +/- 0.0387

[last] Mean precision: 0.7644 +/- 0.0512

[last] Mean recall: 0.6328 +/- 0.0545

[majority] Mean bacc: 0.7870 +/- 0.0266

[majority] Mean f1: 0.6809 +/- 0.0420

[majority] Mean precision: 0.7991 +/- 0.0501

[majority] Mean recall: 0.5961 +/- 0.0548

ALL\_45fold\_64u\_C\_32ws\_12f

Mean val\_loss: 0.2141 +/- 0.0235

[last] Mean bacc: 0.8110 +/- 0.0245

[last] Mean f1: 0.7028 +/- 0.0325

[last] Mean precision: 0.7660 +/- 0.0374

[last] Mean recall: 0.6523 +/- 0.0526

[majority] Mean bacc: 0.7971 +/- 0.0237

[majority] Mean f1: 0.6943 +/- 0.0342

[majority] Mean precision: 0.7959 +/- 0.0370

[majority] Mean recall: 0.6181 +/- 0.0491

ALL\_45fold\_64u\_C\_64ws\_6f

Mean val\_loss: 0.2035 +/- 0.0221

[last] Mean bacc: 0.8016 +/- 0.0246

[last] Mean f1: 0.6891 +/- 0.0351

[last] Mean precision: 0.7615 +/- 0.0451

[last] Mean recall: 0.6327 +/- 0.0528

[majority] Mean bacc: 0.7978 +/- 0.0244

[majority] Mean f1: 0.6906 +/- 0.0346

[majority] Mean precision: 0.7819 +/- 0.0408

[majority] Mean recall: 0.6213 +/- 0.0518

ALL\_45fold\_64u\_C\_64ws\_12f

Mean val\_loss: 0.2044 +/- 0.0253

[last] Mean bacc: 0.8057 +/- 0.0209

[last] Mean f1: 0.7003 +/- 0.0321

[last] Mean precision: 0.7765 +/- 0.0420

[last] Mean recall: 0.6396 +/- 0.0419

[majority] Mean bacc: 0.8026 +/- 0.0218

[majority] Mean f1: 0.7007 +/- 0.0334

[majority] Mean precision: 0.7914 +/- 0.0382

[majority] Mean recall: 0.6304 +/- 0.0434

ALL\_45fold\_128u\_C\_16ws\_6f

Mean val\_loss: 0.2271 +/- 0.0200

[last] Mean bacc: 0.7939 +/- 0.0248

[last] Mean f1: 0.6817 +/- 0.0392

[last] Mean precision: 0.7687 +/- 0.0453

[last] Mean recall: 0.6148 +/- 0.0510

[majority] Mean bacc: 0.7656 +/- 0.0244

[majority] Mean f1: 0.6534 +/- 0.0409

[majority] Mean precision: 0.8086 +/- 0.0419

[majority] Mean recall: 0.5501 +/- 0.0493

ALL\_45fold\_128u\_C\_16ws\_12f

Mean val\_loss: 0.2287 +/- 0.0287

[last] Mean bacc: 0.7966 +/- 0.0259

[last] Mean f1: 0.6837 +/- 0.0412

[last] Mean precision: 0.7624 +/- 0.0477

[last] Mean recall: 0.6220 +/- 0.0522

[majority] Mean bacc: 0.7721 +/- 0.0261

[majority] Mean f1: 0.6602 +/- 0.0445

[majority] Mean precision: 0.7965 +/- 0.0491

[majority] Mean recall: 0.5657 +/- 0.0517

ALL\_45fold\_128u\_C\_32ws\_6f

Mean val\_loss: 0.2160 +/- 0.0294

[last] Mean bacc: 0.8009 +/- 0.0309

[last] Mean f1: 0.6875 +/- 0.0420

[last] Mean precision: 0.7626 +/- 0.0470

[last] Mean recall: 0.6309 +/- 0.0654

[majority] Mean bacc: 0.7859 +/- 0.0302

[majority] Mean f1: 0.6784 +/- 0.0451

[majority] Mean precision: 0.7975 +/- 0.0450

[majority] Mean recall: 0.5940 +/- 0.0622

ALL\_45fold\_128u\_C\_32ws\_12f

Mean val\_loss: 0.2175 +/- 0.0244

[last] Mean bacc: 0.8066 +/- 0.0259

[last] Mean f1: 0.6988 +/- 0.0342

[last] Mean precision: 0.7719 +/- 0.0426

[last] Mean recall: 0.6423 +/- 0.0561

[majority] Mean bacc: 0.7928 +/- 0.0259

[majority] Mean f1: 0.6899 +/- 0.0357

[majority] Mean precision: 0.8029 +/- 0.0412

[majority] Mean recall: 0.6083 +/- 0.0550

ALL\_45fold\_128u\_C\_64ws\_6f

Mean val\_loss: 0.2076 +/- 0.0224

[last] Mean bacc: 0.7973 +/- 0.0287

[last] Mean f1: 0.6827 +/- 0.0397

[last] Mean precision: 0.7627 +/- 0.0541

[last] Mean recall: 0.6236 +/- 0.0623

[majority] Mean bacc: 0.7923 +/- 0.0289

[majority] Mean f1: 0.6832 +/- 0.0398

[majority] Mean precision: 0.7857 +/- 0.0503

[majority] Mean recall: 0.6095 +/- 0.0621

ALL\_45fold\_128u\_C\_64ws\_12f

Mean val\_loss: 0.2064 +/- 0.0261

[last] Mean bacc: 0.8031 +/- 0.0294

[last] Mean f1: 0.6947 +/- 0.0400

[last] Mean precision: 0.7750 +/- 0.0539

[last] Mean recall: 0.6346 +/- 0.0623

[majority] Mean bacc: 0.8000 +/- 0.0285

[majority] Mean f1: 0.6961 +/- 0.0389

[majority] Mean precision: 0.7920 +/- 0.0467

[majority] Mean recall: 0.6251 +/- 0.0594



last voting strategy

**[cleaned data] Testing results without smoothing**

45fold\_64u\_C\_16ws\_6f #params: 13697

[last] Mean bacc: 0.7900 +/- 0.1487

[last] Mean f1: 0.4216 +/- 0.3209

[last] Mean precision: 0.5133 +/- 0.3767

[last] Mean recall: 0.3759 +/- 0.3049

[majority] Mean bacc: 0.7793 +/- 0.1522

[majority] Mean f1: 0.4028 +/- 0.3101

[majority] Mean precision: 0.5613 +/- 0.3898

[majority] Mean recall: 0.3428 +/- 0.2843

Total time taken: 77.11040663719177 s

45fold\_64u\_C\_16ws\_12f #params: 14849

[last] Mean bacc: 0.8034 +/- 0.1328

[last] Mean f1: 0.4385 +/- 0.3081

[last] Mean precision: 0.5464 +/- 0.3628

[last] Mean recall: 0.4000 +/- 0.2931

[majority] Mean bacc: 0.7855 +/- 0.1465

[majority] Mean f1: 0.4097 +/- 0.3078

[majority] Mean precision: 0.5504 +/- 0.3844

[majority] Mean recall: 0.3547 +/- 0.2830

Total time taken: 154.945659160614 s

45fold\_64u\_C\_32ws\_6f #params: 13697

[last] Mean bacc: 0.7998 +/- 0.1459

[last] Mean f1: 0.4258 +/- 0.3226

[last] Mean precision: 0.5389 +/- 0.3689

[last] Mean recall: 0.3963 +/- 0.3159

[majority] Mean bacc: 0.7940 +/- 0.1488

[majority] Mean f1: 0.4200 +/- 0.3202

[majority] Mean precision: 0.5679 +/- 0.3770

[majority] Mean recall: 0.3746 +/- 0.3036

Total time taken: 236.01453375816345 s

45fold\_64u\_C\_32ws\_12f #params: 14849

[last] Mean bacc: 0.7896 +/- 0.1452

[last] Mean f1: 0.4200 +/- 0.3128

[last] Mean precision: 0.5285 +/- 0.3765

[last] Mean recall: 0.3780 +/- 0.3066

[majority] Mean bacc: 0.7870 +/- 0.1507

[majority] Mean f1: 0.4149 +/- 0.3156

[majority] Mean precision: 0.5461 +/- 0.3828

[majority] Mean recall: 0.3635 +/- 0.3037

Total time taken: 317.66740012168884 s

45fold\_64u\_C\_64ws\_6f #params: 13697

[last] Mean bacc: 0.7823 +/- 0.1591

[last] Mean f1: 0.4026 +/- 0.3265

[last] Mean precision: 0.5042 +/- 0.3853

[last] Mean recall: 0.3616 +/- 0.3183

[majority] Mean bacc: 0.7857 +/- 0.1602

[majority] Mean f1: 0.4092 +/- 0.3311

[majority] Mean precision: 0.5234 +/- 0.3917

[majority] Mean recall: 0.3607 +/- 0.3179

Total time taken: 403.92800998687744 s

45fold\_64u\_C\_64ws\_12f #params: 14849

[last] Mean bacc: 0.7783 +/- 0.1600

[last] Mean f1: 0.3918 +/- 0.3221

[last] Mean precision: 0.5160 +/- 0.3773

[last] Mean recall: 0.3478 +/- 0.3075

[majority] Mean bacc: 0.7806 +/- 0.1593

[majority] Mean f1: 0.3972 +/- 0.3235

[majority] Mean precision: 0.5322 +/- 0.3847

[majority] Mean recall: 0.3489 +/- 0.3067

Total time taken: 491.59320640563965 s

45fold\_128u\_C\_16ws\_6f #params: 51969

[last] Mean bacc: 0.7990 +/- 0.1366

[last] Mean f1: 0.4329 +/- 0.3135

[last] Mean precision: 0.5361 +/- 0.3708

[last] Mean recall: 0.3900 +/- 0.2931

[majority] Mean bacc: 0.7815 +/- 0.1474

[majority] Mean f1: 0.4073 +/- 0.3049

[majority] Mean precision: 0.5886 +/- 0.3849

[majority] Mean recall: 0.3447 +/- 0.2775

Total time taken: 570.340585231781 s

45fold\_128u\_C\_16ws\_12f #params: 54273

[last] Mean bacc: 0.7957 +/- 0.1426

[last] Mean f1: 0.4308 +/- 0.3172

[last] Mean precision: 0.5400 +/- 0.3822

[last] Mean recall: 0.3821 +/- 0.2990

[majority] Mean bacc: 0.7794 +/- 0.1532

[majority] Mean f1: 0.4026 +/- 0.3103

[majority] Mean precision: 0.5593 +/- 0.3933

[majority] Mean recall: 0.3406 +/- 0.2864

Total time taken: 648.0120658874512 s

45fold\_128u\_C\_32ws\_6f #params: 51969

[last] Mean bacc: 0.7921 +/- 0.1478

[last] Mean f1: 0.4212 +/- 0.3226

[last] Mean precision: 0.5277 +/- 0.3704

[last] Mean recall: 0.3806 +/- 0.3110

[majority] Mean bacc: 0.7876 +/- 0.1530

[majority] Mean f1: 0.4193 +/- 0.3222

[majority] Mean precision: 0.5593 +/- 0.3868

[majority] Mean recall: 0.3615 +/- 0.3046

Total time taken: 728.6380825042725 s

45fold\_128u\_C\_32ws\_12f #params: 54273

[last] Mean bacc: 0.7865 +/- 0.1531

[last] Mean f1: 0.4134 +/- 0.3224

[last] Mean precision: 0.5273 +/- 0.3851

[last] Mean recall: 0.3652 +/- 0.3076

[majority] Mean bacc: 0.7821 +/- 0.1561

[majority] Mean f1: 0.4086 +/- 0.3219

[majority] Mean precision: 0.5697 +/- 0.3995

[majority] Mean recall: 0.3497 +/- 0.3004

Total time taken: 810.4025483131409 s

45fold\_128u\_C\_64ws\_6f #params: 51969

[last] Mean bacc: 0.7933 +/- 0.1479

[last] Mean f1: 0.4221 +/- 0.3191

[last] Mean precision: 0.5239 +/- 0.3766

[last] Mean recall: 0.3813 +/- 0.3074

[majority] Mean bacc: 0.7925 +/- 0.1491

[majority] Mean f1: 0.4220 +/- 0.3212

[majority] Mean precision: 0.5364 +/- 0.3865

[majority] Mean recall: 0.3741 +/- 0.3045

Total time taken: 896.1394085884094 s

45fold\_128u\_C\_64ws\_12f #params: 54273

[last] Mean bacc: 0.7918 +/- 0.1524

[last] Mean f1: 0.4182 +/- 0.3304

[last] Mean precision: 0.5220 +/- 0.3818

[last] Mean recall: 0.3798 +/- 0.3188

[majority] Mean bacc: 0.7937 +/- 0.1534

[majority] Mean f1: 0.4214 +/- 0.3321

[majority] Mean precision: 0.5338 +/- 0.3864

[majority] Mean recall: 0.3788 +/- 0.3192

Total time taken: 984.4139547348022 s























