Supervised ml algoritms part 1

### Case Study: Climate DatAset Exercise 1-4

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Weather Station** | **CORRECT** | | **FALSE -VE** | **FALSE +VE** | **ACCURACY** |
| BASEL | 3917 | 961 | 439 | 421 | **70.0%** |
| BELAGRADE | 3252 | 1544 | 418 | 524 | **67.2%** |
| BUDAPEST | 3424 | 1462 | 376 | 476 | **70.3%** |
| DEBILT | 4320 | 723 | 378 | 317 | **75.8%** |
| DUSSELDORF | 4164 | 810 | 421 | 343 | **73.4%** |
| HEATHROW | 4138 | 744 | 424 | 432 | **70.2%** |
| KASSEL | 4563 | 614 | 309 | 252 | **80.4%** |
| LJUBLJANA | 3740 | 1180 | 363 | 455 | **71.5%** |
| MAASTRICHT | 4253 | 824 | 352 | 309 | **77.0%** |
| MADRID | 2750 | 2261 | 309 | 418 | **74.7%** |
| MUNCHENB | 4237 | 792 | 400 | 309 | **75.3%** |
| OSLO | 4637 | 512 | 347 | 242 | **79.5%** |
| SONNBLICK | 5738 | 0 | 0 | 0 | **100.0%** |
| STOCKHOLM | 4483 | 607 | 365 | 283 | **77.4%** |
| VALENTIA | 5404 | 74 | 202 | 58 | **90.9%** |
|  |  |  |  | Average | **76.9%** |

**A screenshot of a computer screen

AI-generated content may be incorrect.**

The model shows 76.9% accuracy on average. Only Valentia (90.9%) and Sonnblick (100%) showed high accuracy. The remaining are 80% or less with Belagrade showing the lowest accuracy (67.2%). Sonnblick could be overfitting causing it to show a false increase overall accuracy. While the models hows good performance and a above average degree of accuracy, in most cases, it could be improved with a more comprehensive training approach to further improve accuracy.