**S3 Table. Results for each of the sixteen Convolutional Nets tested in the similarity filter algorithm**

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | Convolutional Net | Number of features | Final Loss | number of epochs | total accuracy | sensitivity | specificity | Model’s size MB(Convolutional Net/ KNN) |
| 123 | VGG16 | 102420484096 | 0,110,130,16 | 847054 | 0,9220,9310,921 | 0,960,950,94 | 0,9790,9870,979 | 310 (154/156)563  (252/311)1071 (448/623) |
| 456 | VGG19 | 102420484096 | 0,140,150,14 | 10599106 | 0,900,9040,901 | 0,920,920,90 | 0,9770,9750,982 | 331  (175/156)583  (272/311)1091 (468/623) |
| 789 | MobileNet | 102420484096 | 0,010,0110,13 | 797273 | 0,910,9130,911 | 0,910,90,91 | 0,9770,9790,975 | 364  (208/156)715  (404/311)1419 (796/623) |
| 101112 | MobileNetv2 | 102420484096 | 0,0210,0220,028 | 636556 | 0,9070,9080,91 | 0,920,910,91 | 0,9810,9830,978 | 409  (253/156)810  (499/311)1612 (989/623) |
| 131415 | NasNetMobile | 102420484096 | 0,0390,0680,046 | 12689123 | 0,8810,900,891 | 0,890,910,90 | 0,9720,9740,977 | 375  (219/156)732  (421/311)1448 (825/623) |