Table3.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Model | Metric | Alpha | Confidence Interval | p-value | ANOVA with bonferroni collection p-value |
| inceptionResNetV2 | Accuracy | 80.0 | 0.041 | 0.0001 | 0.2425 |
| 85.0 | 0.046 |
| 90.0 | 0.0526 |
| 95.0 | 0.0628 |
| 97.5 | 0.0719 |
| 99.0 | 0.0828 |
| 99.5 | 0.0903 |
| 99.9 | 0.1062 |
| Sensitivity | 80.0 | 0.0387 |
| 85.0 | 0.0434 |
| 90.0 | 0.0496 |
| 95.0 | 0.0591 |
| 97.5 | 0.0676 |
| 99.0 | 0.0777 |
| 99.5 | 0.0847 |
| 99.9 | 0.0993 |
| Specificity | 80.0 | 0.0385 |
| 85.0 | 0.0432 |
| 90.0 | 0.0494 |
| 95.0 | 0.0588 |
| 97.5 | 0.0673 |
| 99.0 | 0.0773 |
| 99.5 | 0.0843 |
| 99.9 | 0.0988 |
| F1 Score | 80.0 | 0.0419 |
| 85.0 | 0.0471 |
| 90.0 | 0.0538 |
| 95.0 | 0.0641 |
| 97.5 | 0.0733 |
| 99.0 | 0.0842 |
| 99.5 | 0.0917 |
| 99.9 | 0.1076 |
| efficientNetB2 | Accuracy | 80.0 | 0.0391 | 0.0218 |
| 85.0 | 0.0439 |
| 90.0 | 0.0502 |
| 95.0 | 0.0599 |
| 97.5 | 0.0686 |
| 99.0 | 0.0789 |
| 99.5 | 0.0861 |
| 99.9 | 0.1013 |
| Sensitivity | 80.0 | 0.038 |
| 85.0 | 0.0426 |
| 90.0 | 0.0487 |
| 95.0 | 0.058 |
| 97.5 | 0.0664 |
| 99.0 | 0.0763 |
| 99.5 | 0.0831 |
| 99.9 | 0.0975 |
| Specificity | 80.0 | 0.0337 |
| 85.0 | 0.0379 |
| 90.0 | 0.0433 |
| 95.0 | 0.0516 |
| 97.5 | 0.059 |
| 99.0 | 0.0678 |
| 99.5 | 0.0739 |
| 99.9 | 0.0866 |
| F1 Score | 80.0 | 0.0412 |
| 85.0 | 0.0463 |
| 90.0 | 0.0529 |
| 95.0 | 0.0631 |
| 97.5 | 0.0721 |
| 99.0 | 0.0829 |
| 99.5 | 0.0903 |
| 99.9 | 0.1059 |
| efficientNetB3 | Accuracy | 80.0 | 0.0405 | 0.0005 |
| 85.0 | 0.0455 |
| 90.0 | 0.052 |
| 95.0 | 0.0621 |
| 97.5 | 0.0711 |
| 99.0 | 0.0819 |
| 99.5 | 0.0893 |
| 99.9 | 0.105 |
| Sensitivity | 80.0 | 0.0317 |
| 85.0 | 0.0356 |
| 90.0 | 0.0407 |
| 95.0 | 0.0485 |
| 97.5 | 0.0554 |
| 99.0 | 0.0637 |
| 99.5 | 0.0694 |
| 99.9 | 0.0814 |
| Specificity | 80.0 | 0.0356 |
| 85.0 | 0.04 |
| 90.0 | 0.0457 |
| 95.0 | 0.0544 |
| 97.5 | 0.0622 |
| 99.0 | 0.0715 |
| 99.5 | 0.0779 |
| 99.9 | 0.0914 |
| F1 Score | 80.0 | 0.0406 |
| 85.0 | 0.0456 |
| 90.0 | 0.0521 |
| 95.0 | 0.0621 |
| 97.5 | 0.071 |
| 99.0 | 0.0816 |
| 99.5 | 0.0889 |
| 99.9 | 0.1042 |

Table 2. Performance metrics for each model

|  |  |  |  |
| --- | --- | --- | --- |
|  | **InceptionResNetV2** | **EfficientNetB2** | **EfficientNetB3** |
| AUC | 0.767 | 0.821 | 0.800 |
| Accuracy | 0.697 | 0.778 | 0.778 |
| Sensitivity | 0.692 | 0.827 | 0.712 |
| Specificity | 0.698 | 0.764 | 0.797 |
| F1 Score | 0.503 | 0.623 | 0.587 |