**Diabetes Dataset**

Table 1. Comparison of models based on computational cons and accuracy of Diabetes Dataset

| Terms | ANN | CNN | DNN | MobileNet | EfficientNet | ShuffleNet |
| --- | --- | --- | --- | --- | --- | --- |
| Total No. of parameters | 47489 | 158337 | 183745 | 2340033 | 4131620 | 18114 |
| FLOPs (Floating Point Operations) | 94497 | 667649 | 366481 | 599215297 | 780528156 | 303620 |
| Model Size (in MB) | 0.61 | 1.87 | 2.20 | 10.02 | 17.02 | 0.08 |
| Running Time (in sec) | 0.18 | 0.71 | 0.33 | 17.62 | 3.48 | 0.03 |
| Accuracy | 90.75% | 100% | 89.24% | 100% | 66.35% | 99.65% |

**Kidney Dataset**

Table 2. Comparison of models based on computational cons and accuracy of Kidney Disease Dataset

| Terms | ANN | CNN | DNN | MobileNet | EfficientNet | ShuffelNet |
| --- | --- | --- | --- | --- | --- | --- |
| Total No. of parameters | 51585 | 158337 | 191937 | 2340033 | 4131620 | 18114 |
| FLOPs (Floating Point Operations) | 101729 | 1860673 | 380849 | 599215297 | 780528156 | 446592.0 |
| Model Size (in MB) | 0.67 | 1.8850 | 2.307 | 10.02 | 17.022 | 0.0879 |
| Running Time (in sec) | 0.11 | 0.12 | 0.16 | 3.18 | 3.74 | 0.097 |
| Accuracy | 100% | 100% | 100% | 100% | 61.25% | 100% |