|  |  |  |
| --- | --- | --- |
|  | Training model (second) | Accuracy |
| Naive Bayes | 0.033440351486206055 | 0.9903846153846154 |
| Linear Classifier | 0.06913018226623535 | 0.9871794871794872 |
| Support vector machine | 0.05374741554260254 | 0.9871794871794872 |

|  |  |  |
| --- | --- | --- |
|  | Training model (second) | Accuracy |
| Naive Bayes | 0.036806583404541016 | 0.9823529411764705 |
| Linear Classifier | 0.08079862594604492 | 0.9882352941176471 |
| Support vector machine | 0.07831764221191406 | 0.9941176470588236 |

|  |  |  |
| --- | --- | --- |
|  | Training model (second) | Accuracy |
| Naive Bayes | 0.030782461166381836 | 0.9691211401425178 |
| Linear Classifier | 0.10086727142333984 | 0.9643705463182898 |
| Support vector machine | 0.12969756126403809 | 0.9857482185273159 |

Naive Bayes

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | precision | recall | f1-score | support |
| \_\_label\_\_nước | 1.00 | 0.91 | 0.95 | 69 |
| \_\_label\_\_y\_tế | 1.00 | 1.00 | 1.00 |  |
| \_\_label\_\_điện | 0.91 | 0.99 | 0.95 | 107 |
| \_\_label\_\_điện\_tử | 0.98 | 0.94 | 0.96 | 101 |
|  |  |  |  |  |
| accuracy |  |  | 0.97 | 421 |
| macro avg | 0.97 | 0.96 | 0.97 | 421 |
| weighted avg | 0.97 | 0.97 | 0.97 | 421 |

Linear Classifier

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | precision | recall | f1-score | support |
| \_\_label\_\_nước | 0.98 | 0.93 | 0.96 | 69 |
| \_\_label\_\_y\_tế | 1.00 | 1.00 | 1.00 | 144 |
| \_\_label\_\_điện | 0.89 | 0.98 | 0.93 | 107 |
| \_\_label\_\_điện\_tử | 0.99 | 0.92 | 0.95 | 101 |
|  |  |  |  |  |
| accuracy |  |  | 0.96 | 421 |
| macro avg | 0.97 | 0.96 | 0.96 | 421 |
| weighted avg | 0.97 | 0.96 | 0.96 | 421 |

Support vector machine

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | precision | recall | f1-score | support |
| \_\_label\_\_nước | 1.00 | 0.97 | 0.99 | 69 |
| \_\_label\_\_y\_tế | 1.00 | 1.00 | 1.00 | 144 |
| \_\_label\_\_điện | 0.95 | 1.00 | 0.97 | 107 |
| \_\_label\_\_điện\_tử | 1.00 | 0.96 | 0.98 | 101 |
|  |  |  |  |  |
| accuracy |  |  | 0.99 | 340 |
| macro avg | 0.99 | 0.99 | 0.99 | 340 |
| weighted avg | 0.99 | 0.99 | 0.99 | 340 |