Prepare support vector machines model for classifying the area under fire for foresfires data

BUSSINESS PROBLEM: classifying the areas under fire

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| --- | --- | --- | --- |
| MODEL | TRAIN ACCURACY | TEST ACCURACY | INFERENCE |
| KERNAL=vanilladot | 1 | 94.01 | RIGHT FIT MODEL |
| KERNAL= rbfdot | 0.87 | 0.76 | UNDER FIT MODEL |
| KERNAL= laplacedot | 0.75 | 0.67 | UNDER FIT MODEL |
| KERNAL= polydot | 1 | 94.01 | RIGHT FIT MODEL |
| KERNAL=tanhdot | 0.75 | 0.67 | UNDER FIT MODEL |

Prepare a classification model using SVM for salary data

BUSSINESS PROBLEM: classification model for salary data

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| MODEL | TRAIN ACCURACY | TEST ACCURACY | INFERENCE |
| KERNAL=vanilladot | 0.84 | 0.82 | RIGHT FIT MODEL |
| KERNAL= rbfdot | 0.86 | 0.85 | RIGHT FIT MODEL |
| KERNAL= laplacedot | 0.86 | 0.85 | RIGHT FIT MODEL |
| KERNAL= polydot | 0.84 | 0.84 | RIGHT FIT MODEL |
| KERNAL=tanhdot | 0.66 | 0.66 | RIGHT FIT MODEL |

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IN PYTHON I TOOK ONLY 500 ROWS FROM DATA SET AS ,HUGE DATA SET IS RUNIING IN MY SYSTEM