

ੴ ਸਤਿਗੁਰ ਪ੍ਰਸਾਦਿ

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No.	Name	Category	Type	Performance Metrics						Notes
				Accuracy (%)	Recall (%)	Precision (%)	F1 Score (%)	ROC AUC	Avg Loss	
1	Model A	Classification	Naive Bayes	85.2	88.5	82.1	84.3	0.85	0.002	High variance in training data.
2	Model B	Classification	Decision Tree	92.1	95.3	90.8	93.5	0.92	0.001	Good generalization performance.
3	Model C	Classification	Random Forest	98.7	99.1	98.5	98.8	0.98	0.0005	Best overall performance.
4	Model D	Classification	Support Vector Machine	90.5	93.2	89.7	91.8	0.90	0.0015	Reliable performance across different datasets.
5	Model E	Classification	K-Nearest Neighbors	88.9	90.5	87.6	89.3	0.89	0.0012	Competitive performance.
6	Model F	Classification	Logistic Regression	90.0	91.8	90.2	91.0	0.90	0.0010	Stable performance.
7	Model G	Classification	Naive Bayes	87.5	89.0	86.3	88.2	0.87	0.0018	Similar performance to Model A.
8	Model H	Classification	Decision Tree	91.2	93.8	90.5	92.5	0.91	0.0008	Competitive performance.
9	Model I	Classification	Random Forest	97.8	98.2	97.5	97.8	0.97	0.0002	Best performance among all models.
10	Model J	Classification	Support Vector Machine	93.5	95.0	92.8	94.1	0.93	0.0005	Competitive performance.
11	Model K	Classification	K-Nearest Neighbors	90.8	92.5	90.0	91.5	0.90	0.0010	Competitive performance.
12	Model L	Classification	Logistic Regression	92.3	94.0	91.5	93.2	0.92	0.0008	Competitive performance.
13	Model M	Classification	Naive Bayes	86.9	89.2	85.4	87.7	0.86	0.0020	Low performance due to missing data.
14	Model N	Classification	Decision Tree	93.8	95.5	93.0	94.3	0.93	0.0005	Competitive performance.
15	Model O	Classification	Random Forest	98.2	98.6	98.0	98.4	0.98	0.0001	Best performance among all models.
16	Model P	Classification	Support Vector Machine	94.5	96.2	93.8	95.0	0.94	0.0003	Competitive performance.
17	Model Q	Classification	K-Nearest Neighbors	91.5	93.2	90.8	92.5	0.91	0.0008	Competitive performance.
18	Model R	Classification	Logistic Regression	93.0	94.8	92.3	93.7	0.93	0.0005	Competitive performance.
19	Model S	Classification	Naive Bayes	85.7	88.0	84.2	86.3	0.85	0.0022	Low performance due to missing data.
20	Model T	Classification	Decision Tree	92.5	94.3	91.8	93.5	0.92	0.0006	Competitive performance.
21	Model U	Classification	Random Forest	97.9	98.3	97.6	97.9	0.97	0.0002	Best performance among all models.
22	Model V	Classification	Support Vector Machine	94.2	95.9	93.5	94.7	0.94	0.0004	Competitive performance.
23	Model W	Classification	K-Nearest Neighbors	91.8	93.5	91.0	92.3	0.91	0.0009	Competitive performance.
24	Model X	Classification	Logistic Regression	92.7	94.4	92.0	93.6	0.92	0.0006	Competitive performance.
25	Model Y	Classification	Naive Bayes	87.2	89.5	86.0	88.2	0.87	0.0015	Similar performance to Model A.
26	Model Z	Classification	Decision Tree	93.7	95.4	93.0	94.1	0.93	0.0007	Competitive performance.
27	Model AA	Classification	Random Forest	98.4	98.8	98.1	98.5	0.98	0.0001	Best performance among all models.
28	Model BB	Classification	Support Vector Machine	95.1	96.8	94.5	95.7	0.95	0.0003	Competitive performance.
29	Model CC	Classification	K-Nearest Neighbors	92.2	93.9	91.5	92.7	0.92	0.0012	Competitive performance.
30	Model DD	Classification	Logistic Regression	93.6	95.3	92.9	94.1	0.93	0.0005	Competitive performance.
31	Model EE	Classification	Naive Bayes	86.5	88.8	85.2	87.5	0.86	0.0020	Low performance due to missing data.
32	Model FF	Classification	Decision Tree	92.9	94.6	92.2	93.4	0.92	0.0006	Competitive performance.
33	Model GG	Classification	Random Forest	97.5	97.9	97.2	97.6	0.97	0.0002	Best performance among all models.
34	Model HH	Classification	Support Vector Machine	94.8	96.5	94.1	95.2	0.94	0.0004	Competitive performance.
35	Model II	Classification	K-Nearest Neighbors	91.3	93.0	90.6	91.8	0.91	0.0010	Competitive performance.
36	Model JJ	Classification	Logistic Regression	92.8	94.5	92.1	93.3	0.92	0.0006	Competitive performance.
37	Model KK	Classification	Naive Bayes	87.8	89.5	86.5	88.2	0.87	0.0018	Similar performance to Model A.
38	Model LL	Classification	Decision Tree	93.4	95.1	92.7	94.0	0.93	0.0007	Competitive performance.
39	Model MM	Classification	Random Forest	98.1	98.5	97.8	98.1	0.98	0.0001	Best performance among all models.
40	Model NN	Classification	Support Vector Machine	95.5	97.2	94.8	96.0	0.95	0.0003	Competitive performance.
41	Model OO	Classification	K-Nearest Neighbors	92.6	94.3	91.9	93.1	0.92	0.0009	Competitive performance.
42	Model PP	Classification	Logistic Regression	93.9	95.6	93.2	94.4	0.93	0.0005	Competitive performance.
43	Model QQ	Classification	Naive Bayes	86.8	88.5	85.3	87.0	0.86	0.0020	Low performance due to missing data.
44	Model RR	Classification	Decision Tree	93.1	94.8	92.4	93.6	0.93	0.0006	Competitive performance.
45	Model SS	Classification	Random Forest	97.6	98.0	97.3	97.7	0.97	0.0002	Best performance among all models.
46	Model TT	Classification	Support Vector Machine	94.9	96.6	94.2	95.4	0.94	0.0004	Competitive performance.
47	Model UU	Classification	K-Nearest Neighbors	91.7	93.4	91.0	92.2	0.91	0.0010	Competitive performance.
48	Model VV	Classification	Logistic Regression	93.2	94.9	92.5	93.7	0.93	0.0006	Competitive performance.
49	Model WW	Classification	Naive Bayes	87.9	89.6	86.6	88.3	0.87	0.0018	Similar performance to Model A.
50	Model XX	Classification	Decision Tree	93.5	95.2	92.8	94.0	0.93	0.0007	Competitive performance.
51	Model YY	Classification	Random Forest	97.9	98.3	97.6	97.9	0.97	0.0002	Best performance among all models.
52	Model ZZ	Classification	Support Vector Machine	95.3	97.0	94.6	96.2	0.95	0.0003	Competitive performance.
53	Model AA	Classification	K-Nearest Neighbors	92.0	93.7	91.3	92.5	0.92	0.0009	Competitive performance.
54	Model BB	Classification	Logistic Regression	93.4	95.1	92.7	93.9	0.93	0.0005	Competitive performance.
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आयोजनाको नाम पशु सेवा विभाग

त्रिवेदी १९८५/८

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