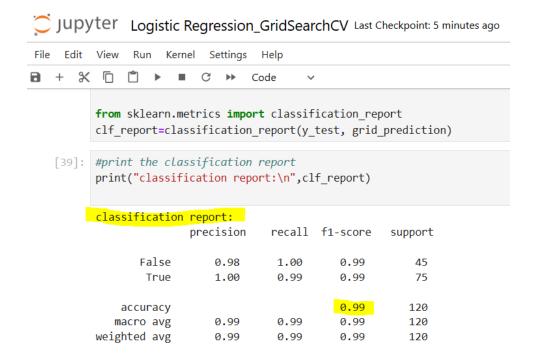
Evaluation Metrics Report for Different Algorithms

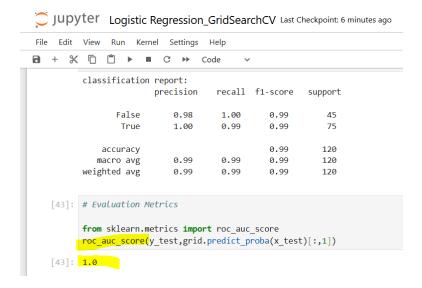
1. Logistic Regression

	precision	Recall	F1-score	Support
False	0.98	1.00	0.99	45
True	1.00	0.99	0.99	75
accuracy			0.99	120
Macro Avg	0.99	0.99	0.99	120
Weighted Avg	0.99	0.99	0.99	120



Accuracy = 0.99

ROC AUC Score Screenshot

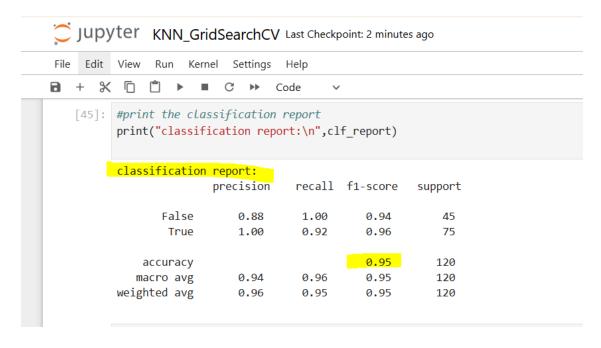


roc_auc_score = 1.0

2. KNN

	precision	Recall	F1-score	Support
False	0.88	1.00	0.94	45
True	1.00	0.92	0.96	75
Accuracy			0.95	120
Macro Avg	0.94	0.96	0.95	120
Weighted Avg	0.96	0.95	0.95	120





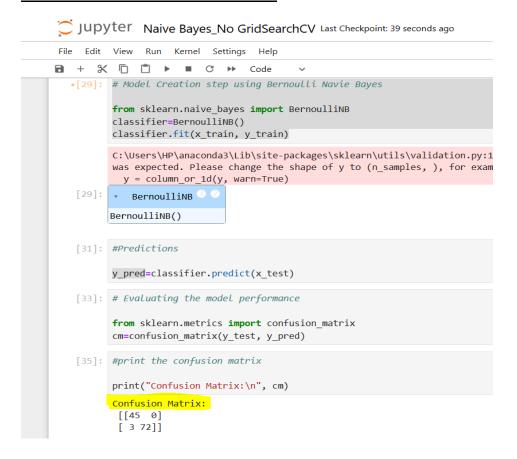
Accuracy = 0.95

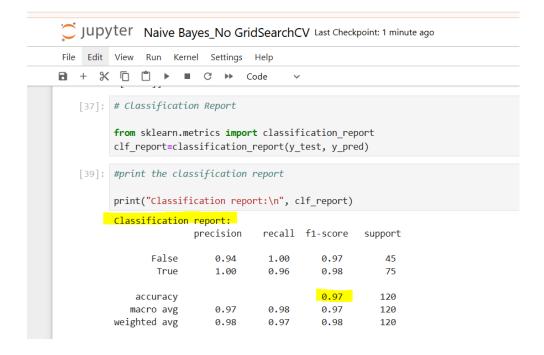
ROC AUC Score Screenshot

roc_auc_score =0.99

3. Naive Bayes

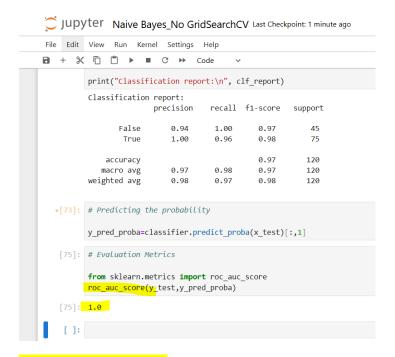
	precision	Recall	F1-score	Support
False	0.94	1.00	0.97	45
True	1.00	0.96	0.98	75
Accuracy			0.97	120
Macro Avg	0.97	0.98	0.97	120
Weighted Avg	0.98	0.97	0.98	120





Accuracy = 0.97

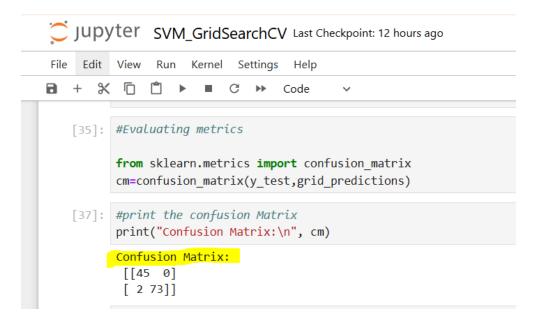
ROC AUC Score Screenshot

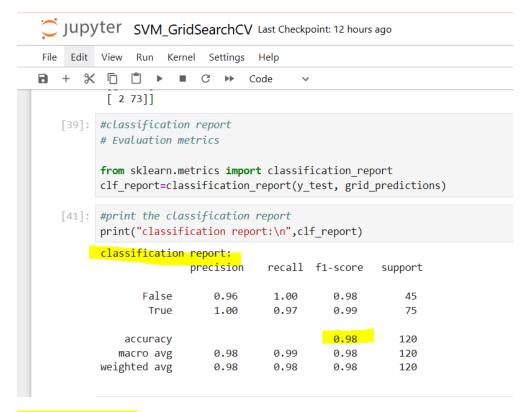


roc_auc_score =1.0

4. Support Vector Machine

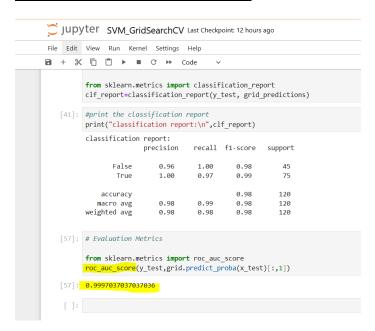
	precision	Recall	F1-score	Support
False	0.96	1.00	0.98	45
True	1.00	0.97	0.99	75
Accuracy			<mark>0.98</mark>	120
Macro Avg	0.98	0.99	0.98	120
Weighted Avg	0.98	0.98	0.98	120





Accuracy = 0.98

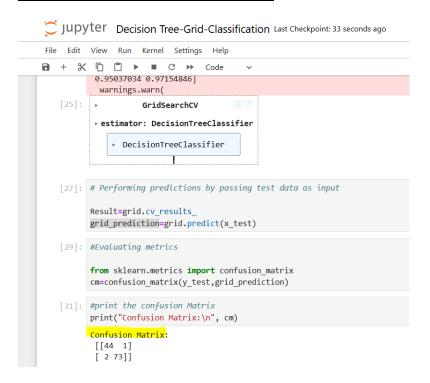
ROC AUC Score Screenshot

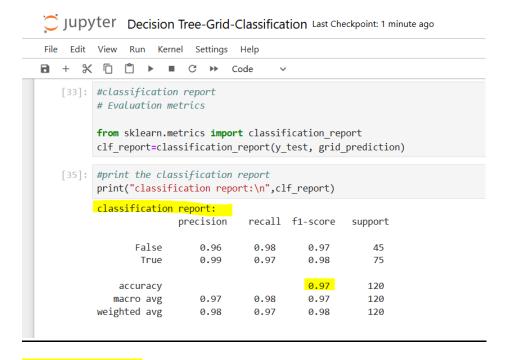


roc_auc_score =0.99

5. Decision Tree

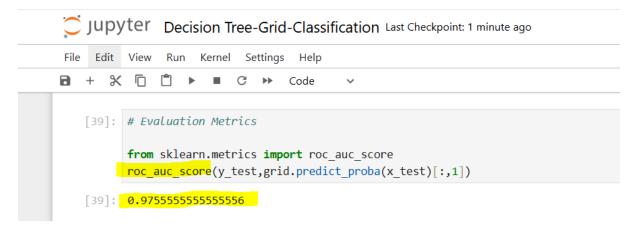
	precision	Recall	F1-score	Support
False	0.96	0.98	0.97	45
True	0.99	0.97	0.98	75
Accuracy			0.97	120
Macro Avg	0.97	0.98	0.97	120
Weighted Avg	0.98	0.97	0.98	120





Accuracy = 0.97

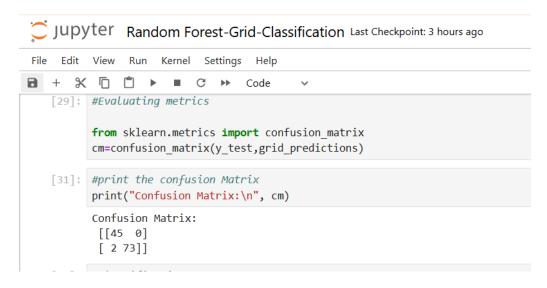
ROC AUC Score Screenshot

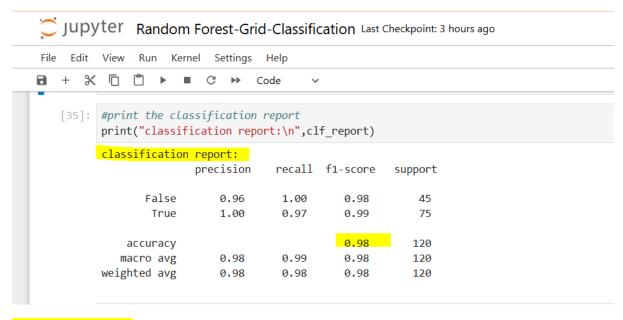


roc_auc_score = 0.97

6. Random Forest

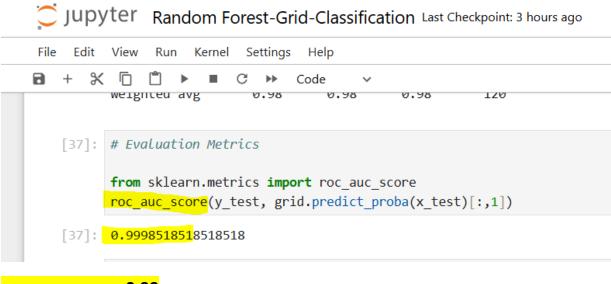
	precision	Recall	F1-score	Support
False	0.96	1.00	0.98	45
True	1.00	0.97	0.99	75
Accuracy			<mark>0.98</mark>	120
Macro Avg	0.98	0.99	0.98	120
Weighted Avg	0.98	0.98	0.98	120





Accuracy = 0.98

ROC AUC Score Screenshot



roc_auc_score =0.99

Final Model: The results indicate that **Logistic Regression** outperformed alternative AI models in terms of **evaluation metrics**, leading to its selection for deployment.