

Model Comparison Report

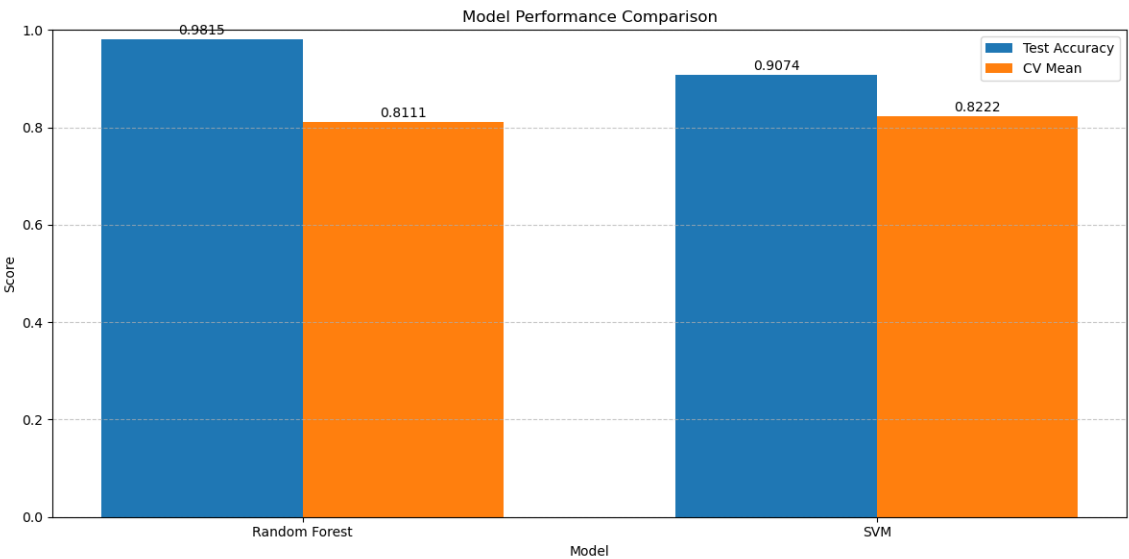
Date: 14/05/2025 19:00:43

Dataset: gradientes_.csv

Results Summary

Model	Test Accuracy	Cross-Validation
Random Forest	0.9815	0.8111
SVM	0.9074	0.8222

Performance Comparison

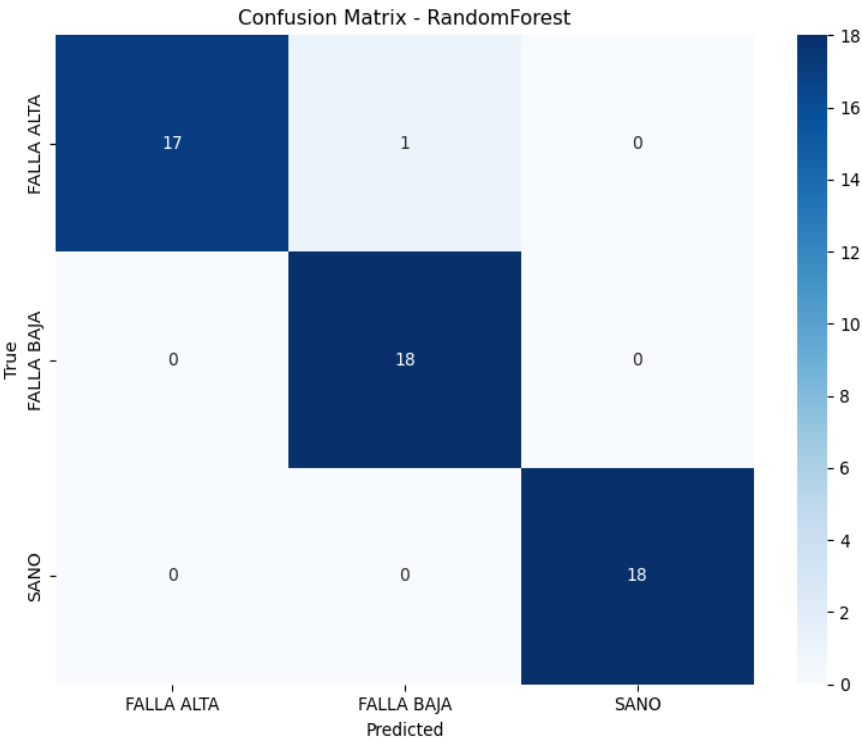


Model Details: Random Forest

Evaluation Metrics:

Class	Precision	Recall	F1-Score	Support
FALLA ALTA	1.0000	0.9444	0.9714	18.0
FALLA BAJA	0.9474	1.0000	0.9730	18.0
SANO	1.0000	1.0000	1.0000	18.0
macro avg	0.9825	0.9815	0.9815	54.0
weighted avg	0.9825	0.9815	0.9815	54.0

Confusion Matrix:

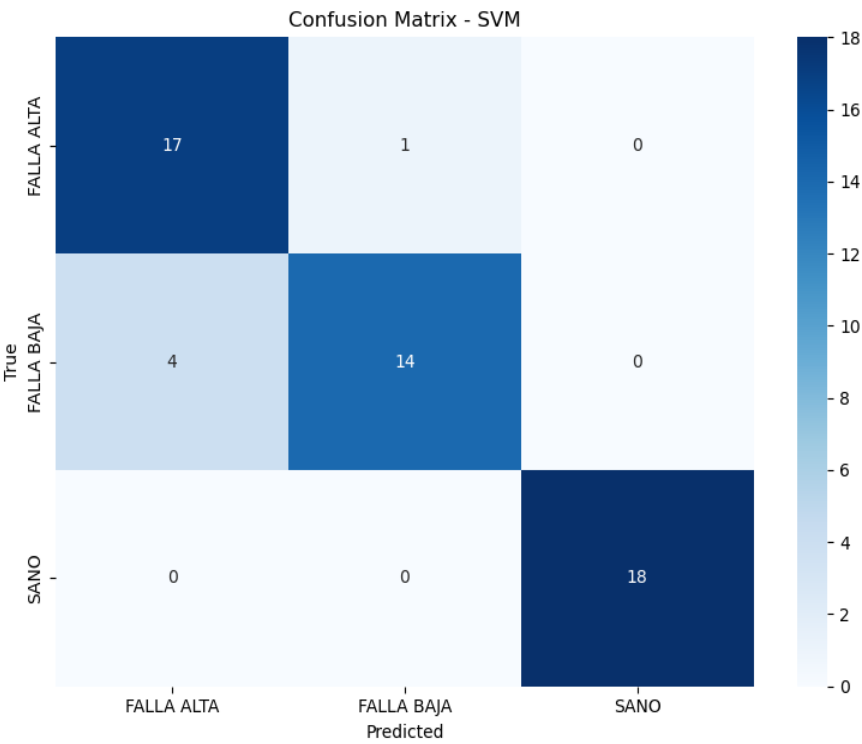


Model Details: SVM

Evaluation Metrics:

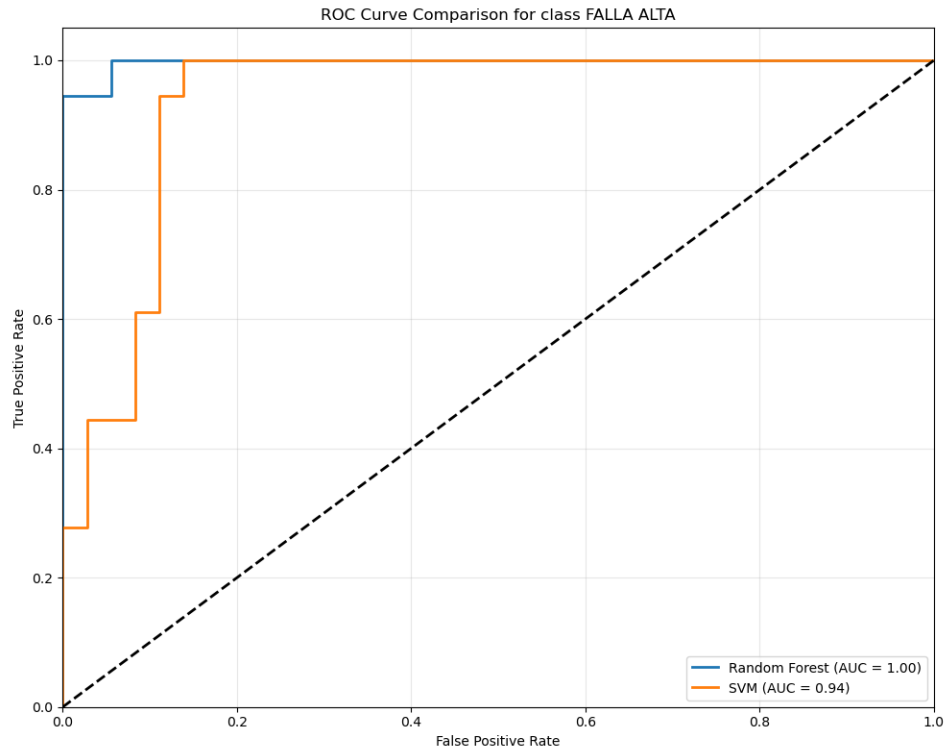
Class	Precision	Recall	F1-Score	Support
FALLA ALTA	0.8095	0.9444	0.8718	18.0
FALLA BAJA	0.9333	0.7778	0.8485	18.0
SANO	1.0000	1.0000	1.0000	18.0
macro avg	0.9143	0.9074	0.9068	54.0
weighted avg	0.9143	0.9074	0.9068	54.0

Confusion Matrix:

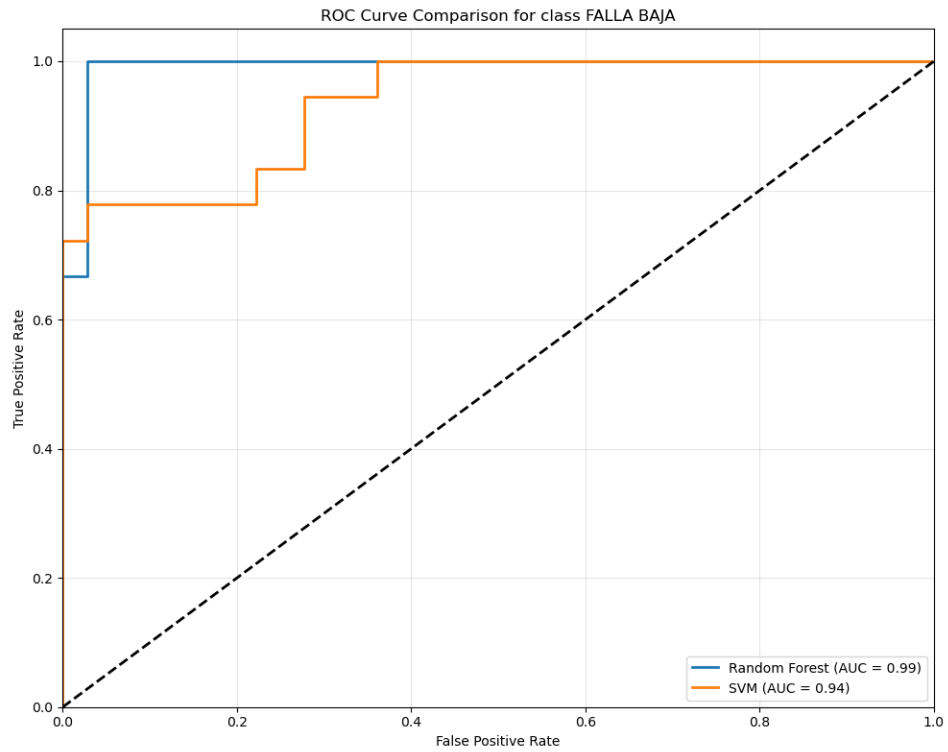


ROC Curves by Class

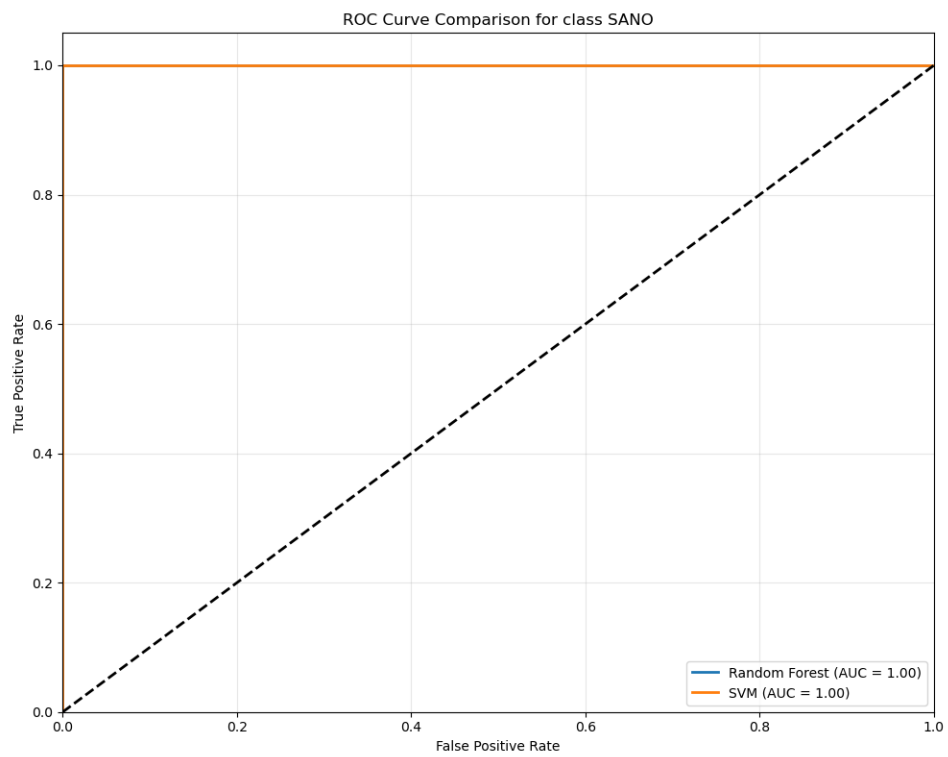
Class 0:



Class 1:



Class 2:



Conclusions

Based on the results, the best performing model is Random Forest with an accuracy of 0.9815 on the test set and 0.8111 in cross-validation.