

Model Development Phase Template

Date	15 March 2024
Team ID	SWTID1749710222
Project Title	Unlocking Silent Signals: Decoding Body Language with Mediapipe
Maximum Marks	6 Marks

Model Selection Report

In the forthcoming Model Selection Report, various models will be outlined, detailing their descriptions, hyperparameters, and performance metrics, including Accuracy or F1 Score. This comprehensive report will provide insights into the chosen models and their effectiveness.

Model Selection Report:

Model	Description	Hyperparameters	Performance Metric (e.g., Accuracy, F1 Score)
Logistic Regression	a linear classifier that models class probabilities.	max_iter=1000, default solver (lbfgs), StandardScaler, SimpleImputer(mean)	Accuracy lr 0.9965397923875432 F1 Score lr 0.994810103488528
Ridge Classifier	linear classifier with L2 regularization.	Default params, StandardScaler, SimpleImputer(mean)	Accuracy rc 0.9965397923875 F1 Score rc 0.994810103488528
Random Forest Classifier	ensemble of decision trees for classification.	Default params (e.g., n_estimators=100), StandardScaler, SimpleImputer(mean)	Accuracy rf 1.0 F1 Score rf 0.9965396145051618

Gradient Boosting Classifier	sequential trees minimizing error.	Default params (e.g., n_estimators=100), StandardScaler, SimpleImputer(mean)	<div>Accuracy gb 1.0</div> <div>F1 Score gb 0.9982693664688069</div>
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