



## **Model Development Phase Template**

Date	16 July 2024
Team ID	xxxxxxxxxx
Project Title	Detection of Autistic Spectrum Disorder: Classification
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)
Random Forest	Ensemble of decision trees ;robust, handles complex relationships ,reduces overfitting,andpr ovides feature importance for disorder prediction		Accuracy score = 100%
Decision Tree	Simple tree structure; interpretable, captures non-	_	Accuracy score = 100%





	linear relationships, suitable for initial insights into disorder approval patterns.		
KNN	Classifies based on nearestneighbo rs; adapts well to data patterns, effective	-	Accuracy score = 96.17