

ASD vs TD Binary Classification - Summary

Generated: 2025-09-11T17:05:31.468349

Completed Phases: data_preparation, feature_engineering, exploratory_analysis, model_development

Data Summary:

Total sessions: 823

Unique children: 270

Label distribution: {'ASD': 489, 'TD': 334}

Model Performance (Holdout):

Best model: Random Forest

Best CV AUC: 1.000

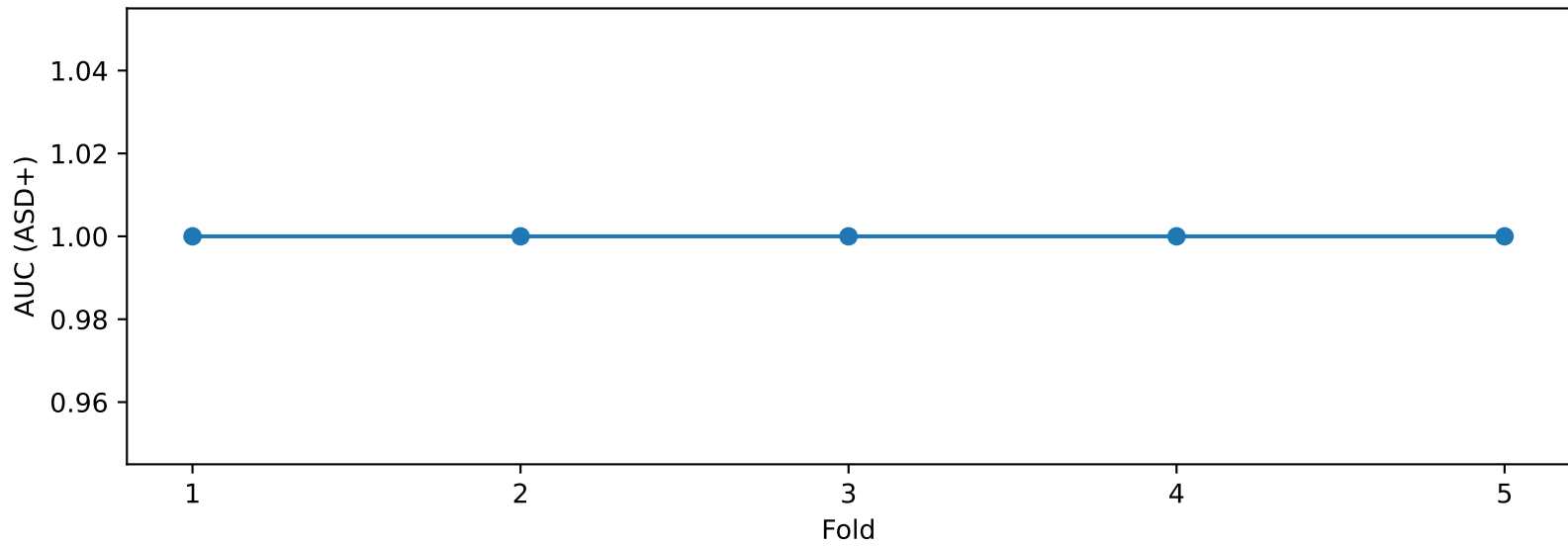
Holdout AUC: 1.0

Holdout ASD Sensitivity: 1.0

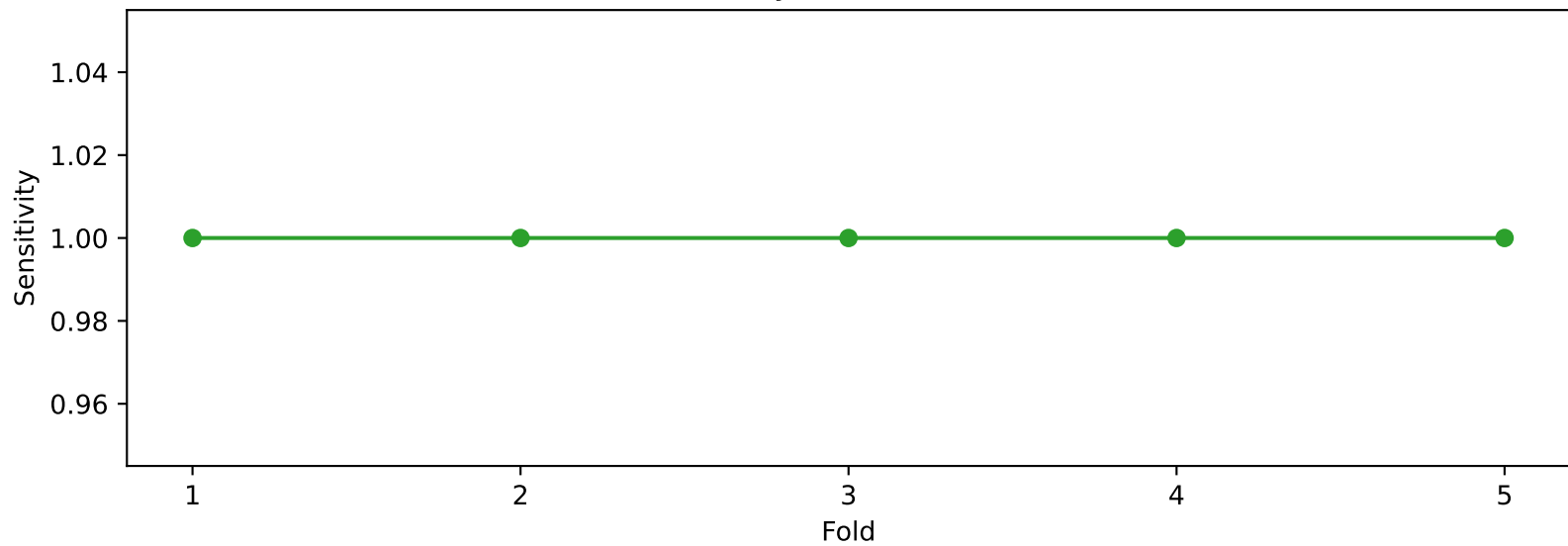
Holdout ASD Specificity: 1.0

Cross-Validation Metrics (Random Forest)

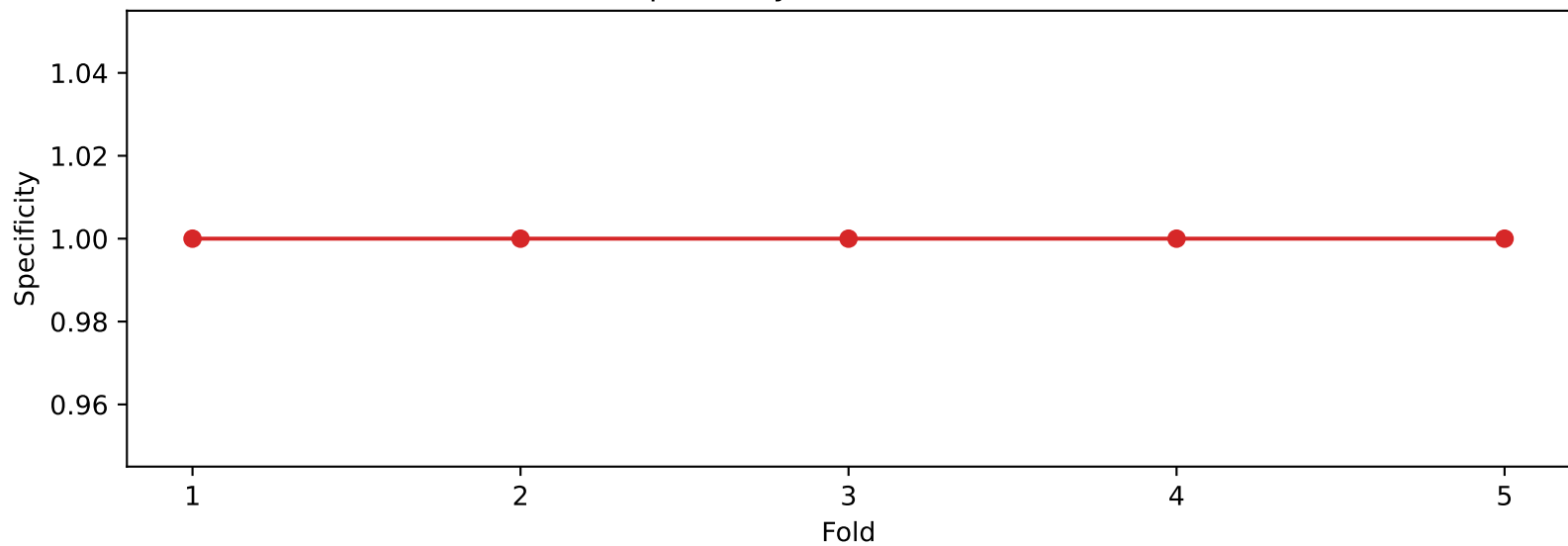
Fold AUCs (mean=1.000, std=0.000)



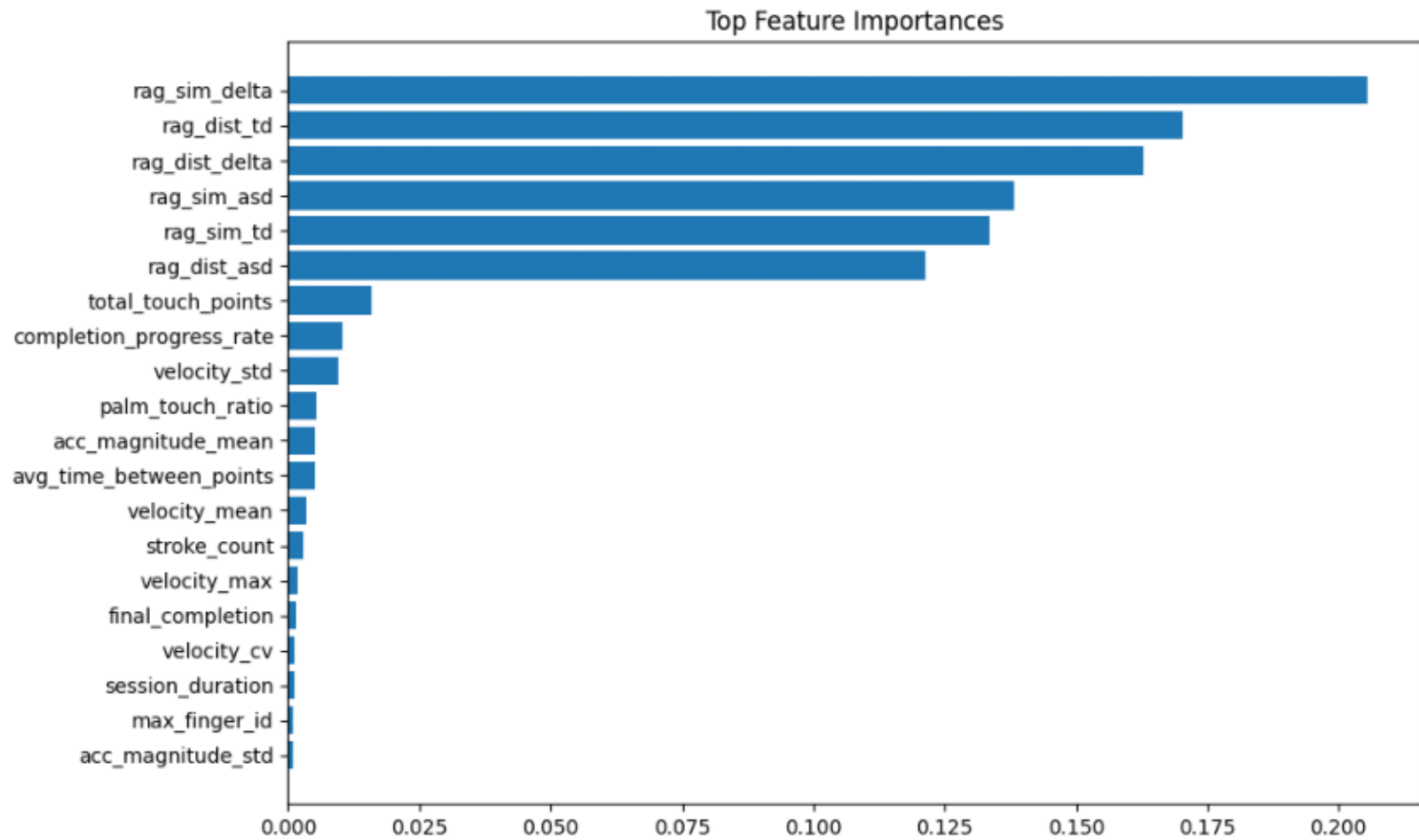
Fold ASD Sensitivity (mean=1.000, std=0.000)



Fold ASD Specificity (mean=1.000, std=0.000)



top_features.png



shap_summary.png

