Cognitive, Genetic, and Lifestyle Synergy: A Machine Learning Approach to Alzheimer's Diagnosis
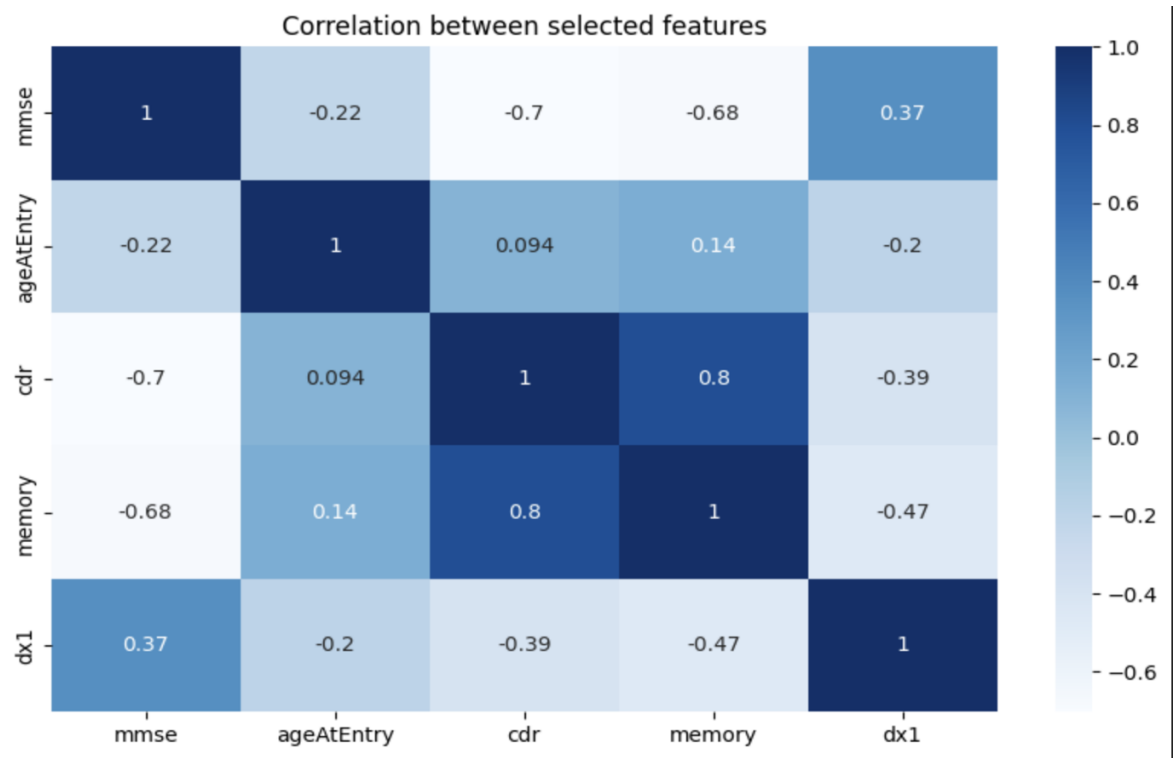
Darsh Choudhary and Nirupma Singh

Figure S1. This figure shows the correlation values between different features of dataset 2. The positive values shows positive correlation and negative values show negative correlation between the two features.

Table S1. Evaluation metrics of each ML Model on Dataset 2

Model's Name	Accuracy	Precision	Recall	F1 Score	AUC-ROC Score
KNN	88.77%	88.84%	88.77%	88.77%	95.26%
SVM	86.81%	87.61%	86.68%	86.68%	95.74%
Logistic Regression	86.81%	87.51%	86.68%	86.69%	95.19%
Naive Bayes	83.07%	88.78%	83.07%	81.90%	95.47%
Random Forest	**90.94%**	**90.99%**	**90.94%**	**90.93%**	**97.09%**
XGBoost	87.01%	87.43%	87.01%	86.94%	96.24%
AdaBoost	87.40%	89.95%	87.40%	87.04%	94.70%

Table S2. Evaluation metrics of each ML Model on Dataset 3

Mode Name	Accuracy	Precision	Recall	F1 Score	AUC-ROC Score
KNN	73.58%	73.76%	73.58%	73.57%	79.27%
SVM	71.70%	71.75%	71.70%	71.70%	84.47%
Logistic Regression	77.36%	77.48%	77.36%	77.31%	84.90%
Naive Bayes	84.91%	85.68%	84.91%	84.80%	86.18%
Random Forest	81.13%	81.28%	81.13%	81.09%	87.82%
XGBoost	**86.79%**	**89.51%**	**86.79%**	**86.52%**	**91.45%**
AdaBoost	75.47%	75.49%	75.47%	75.45%	87.74%