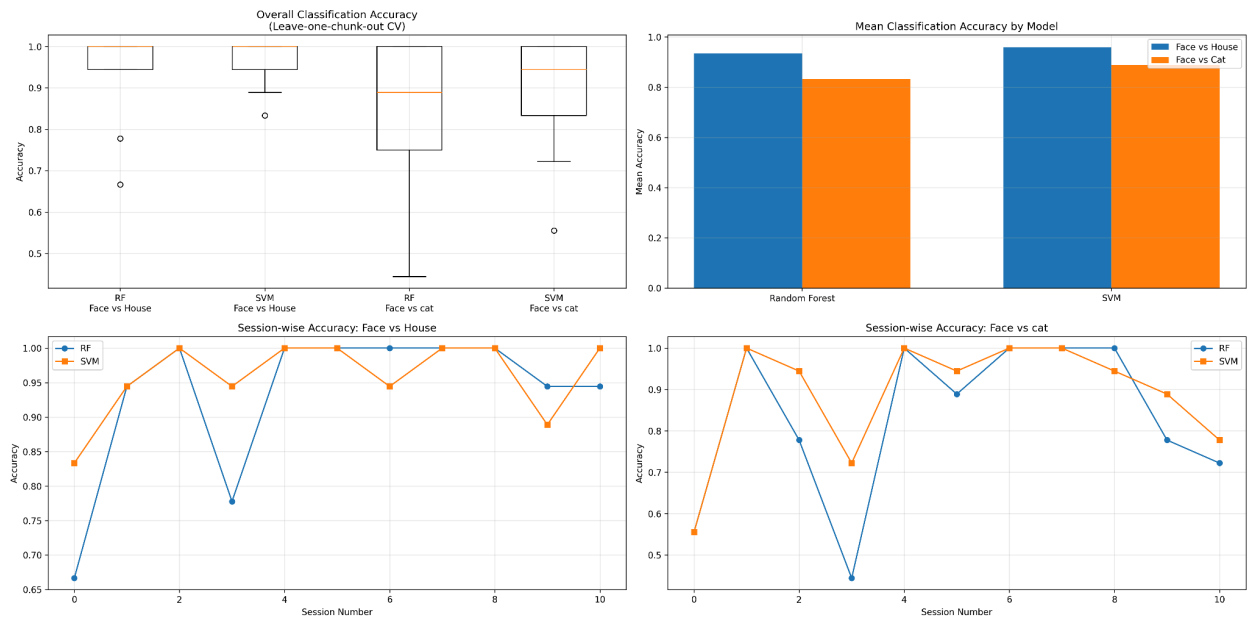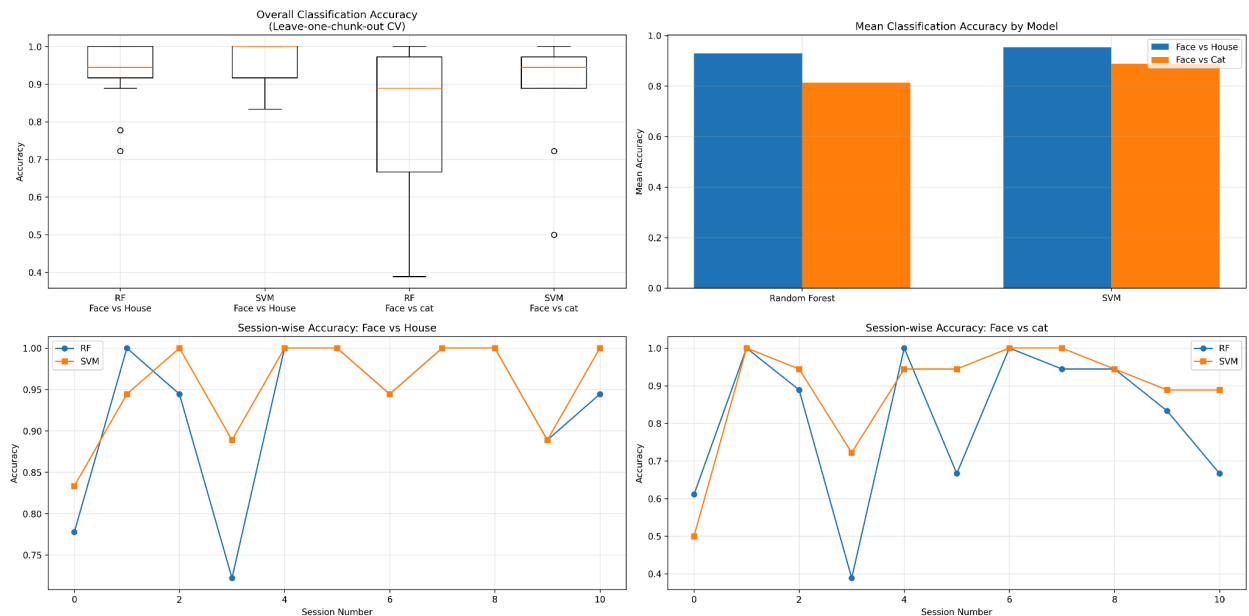Cogsci and AI - Report

We present and analyze the results from the 3 experiments. For Binary Classification we test with two models SVM and Random Forest, since both of them have proved to show good results with higher dimensional data like FMRI. The experiments are -

1. **Binary Classification of Face vs House and Face vs Cat for VT Region(considering all features)**

2. **Binary Classification of Face vs House and Face vs Cat for VT Region(considering 50% features)**

We see that even with 50% features of FMRI the accuracy of classification is nearly same and comparable.Hence much of the

information in FMRI can be decomposed to lower dimensions, perhaps could be even lower if we could test with PCA.

3. **Binary Classification of Face vs House and Face vs Cat in Superior Temporal Region**