

Cognition-Weighted Multimodal MRI and FDG-PET Features for Classification of Mild Cognitive Impairment, Alzheimer's Disease, and Frontotemporal Dementia

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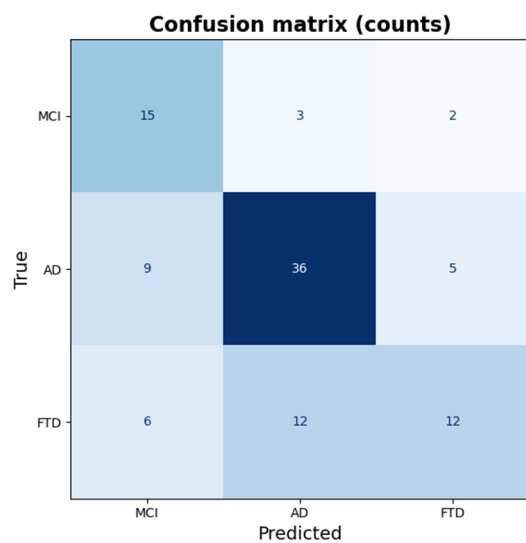
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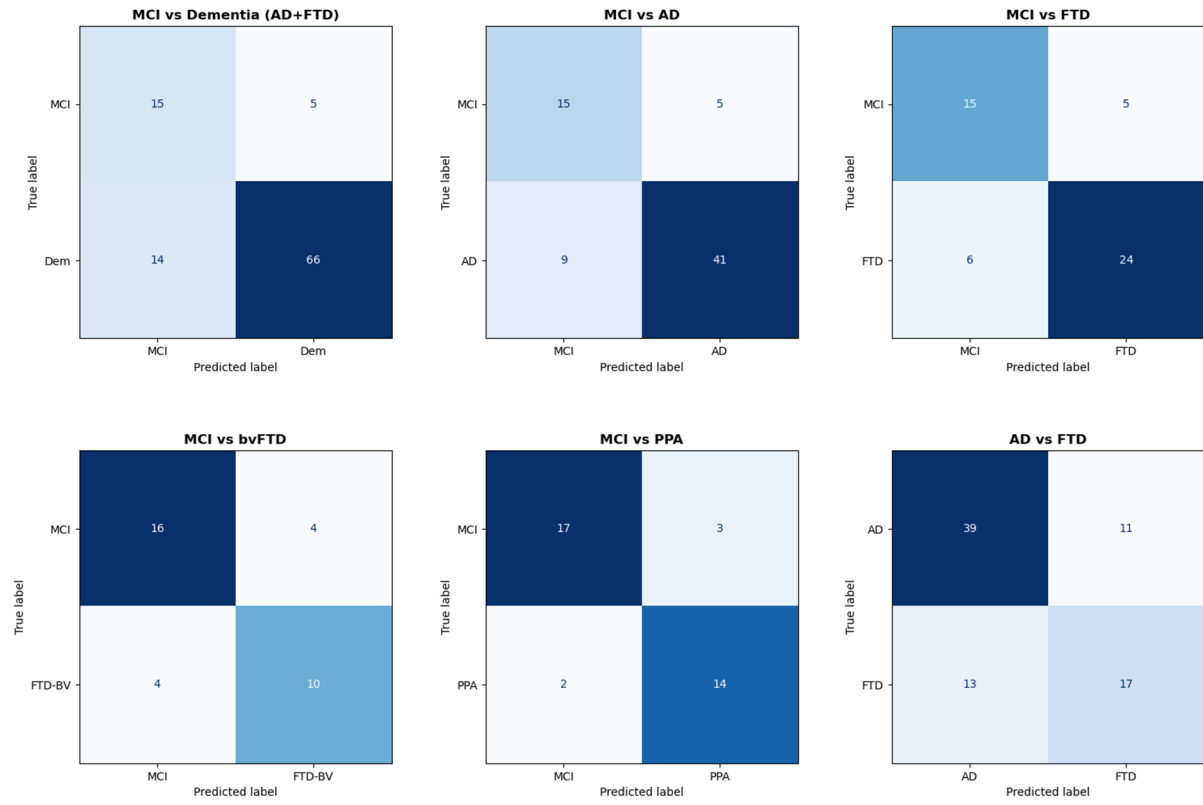
Supplementary Table S1. Multiple Comparisons (Post Hoc test -bonferroni)

	MCI	vs	MCI	vs	MCI	vs	AD	vs	AD	vs	bvFTD	vs
	AD		bvFTD		PPA		bvFTD		PPA		PPA	
Age	1.00		0.39		1.00		1.00		0.53		0.12	
Duration of illness	1.00		0.96		1.00		1.00		1.00		1.00	
Education	0.94		1.00		1.00		1.00		1.00		1.00	
ACE-III	<0.01		<0.01		<0.01		0.80		0.10		0.01	
Attention	<0.01		0.01		<0.01		0.10		0.89		0.01	
Memory	<0.01		<0.01		<0.01		1.00		1.00		0.34	
Fluency	<0.01		<0.01		<0.01		1.00		0.04		0.09	
Language	<0.01		0.04		<0.01		1.00		0.02		0.01	
Visuospatial	<0.01		<0.01		<0.01		1.00		1.00		0.62	

Abbreviations: MCI- Mild cognitive impairment, AD-Alzheimer's Disease, FTD-Frontotemporal dementia, behaviour FTD, PPA- Primary Progressive Aphasia, ACE-III = Addenbrooke's Cognitive Examination-III;



Supplementary Figure S1. Confusion matrix for the three-class Naïve Bayes classifier (MCI vs. AD vs. FTD). Rows indicate the true diagnostic group and columns the group predicted by the classifier; each cell gives the number of participants. Diagonal cells (shaded most darkly) represent correctly classified cases and off-diagonal cells represent misclassifications, with colour intensity scaled to cell count. Of the 100 participants, 15 of 20 MCI, 36 of 50 AD, and 12 of 30 FTD cases were correctly classified. *Abbreviations: MCI = mild cognitive impairment; AD = Alzheimer's disease; FTD = frontotemporal dementia.*



Supplementary Figure S2. Confusion matrices for the six binary classification tasks performed with the Naïve Bayes classifier. Rows indicate the true group and columns the predicted group; each cell gives the number of participants, with colour intensity scaled to cell count and diagonal cells representing correct classifications. The panels show, respectively: MCI vs. Dementia (AD+FTD), MCI vs. AD, MCI vs. FTD, MCI vs. bvFTD, MCI vs. PPA, and AD vs. FTD.

Abbreviations: MCI = mild cognitive impairment; AD = Alzheimer's disease; FTD = frontotemporal dementia; Dem = dementia (AD+FTD); FTD-BV/bvFTD = behavioural-variant FTD; PPA = primary progressive aphasia.