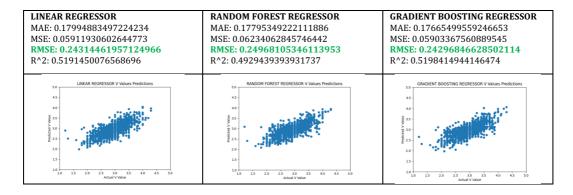
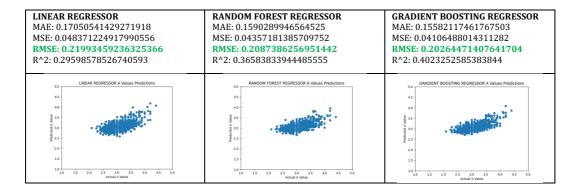
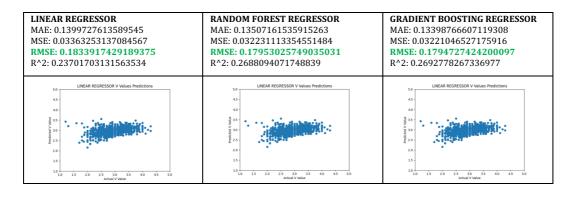
## Dataset con l'embedding delle frasi

#### Valence



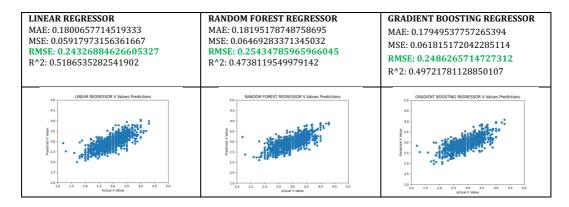
#### • Arousal



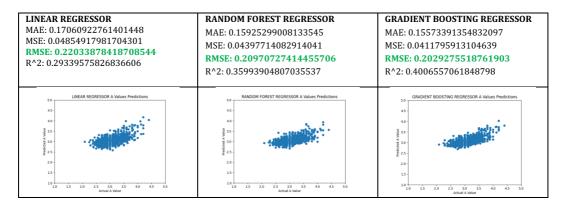


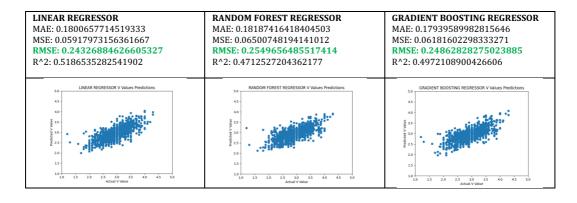
### 1. Rimozione della codifica dell'emozione

#### Valence



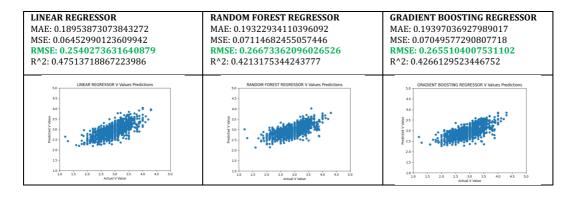
#### Arousal



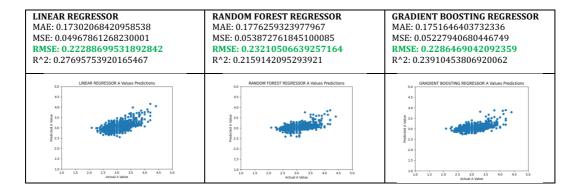


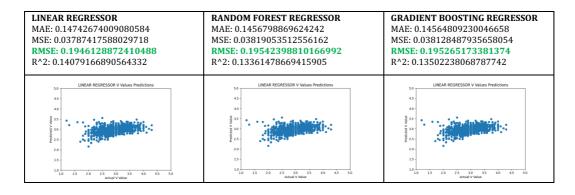
#### 2. Rimozione dei valori delle altre due dimensioni conosciute

#### Valence



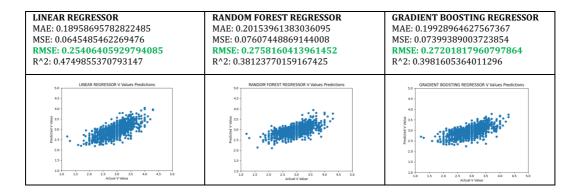
#### Arousal



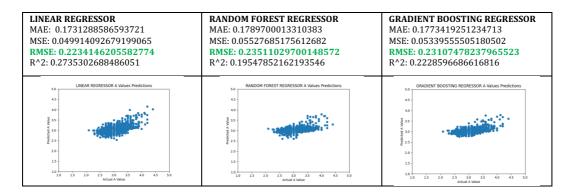


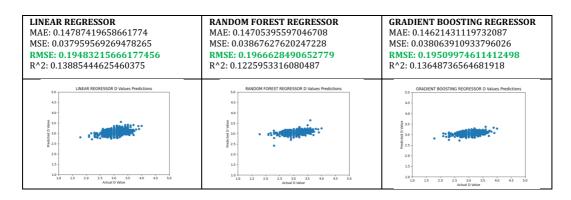
# 3. Rimozione della codifica dell'emozione e dei valori delle altre due dimensioni conosciute

#### Valence



#### Arousal





# - Summary dei risultati

Di seguito una tabella ricapitolativa dove vengono mostrati solamente i valori della metrica RMSE per ogni dataset e modello utilizzato. I modelli con i risultati migliori (in termini di RMSE) sono evidenziati in verde:

Dataset con l'embeddir	ng delle frasi
Valence	
	LINEAR REGRESSOR: (RMSE): 0.24314461957124966
	RANDOM FOREST REGRESSOR (RMSE): 0.24968105346113953
	GRADIENT BOOSTING REGRESSOR (RMSE): 0.24296846628502114
Arousal	
	LINEAR REGRESSOR: (RMSE): 0.21993459236325366
	RANDOM FOREST REGRESSOR (RMSE): 0.2087386256951442
	GRADIENT BOOSTING REGRESSOR (RMSE): 0.20264471407641704
Dominance	
	LINEAR REGRESSOR: (RMSE): 0.1833917429189375
	RANDOM FOREST REGRESSOR (RMSE): 0.17953025749035031
	GRADIENT BOOSTING REGRESSOR (RMSE): 0.1794727424200097
Dataset con rimozione	della codifica dell'emozione
Valence	
	LINEAR REGRESSOR: (RMSE): 0.24326884626605327
	RANDOM FOREST REGRESSOR (RMSE): 0.25434785965966045
	GRADIENT BOOSTING REGRESSOR (RMSE): 0.2486265714727312
Arousal	
	LINEAR REGRESSOR: (RMSE): 0.22033878418708544
	RANDOM FOREST REGRESSOR (RMSE): 0.20970727414455706
	GRADIENT BOOSTING REGRESSOR (RMSE): 0.2029275518761903
Dominance	
	LINEAR REGRESSOR: (RMSE): 0.24326884626605327
	RANDOM FOREST REGRESSOR (RMSE): 0.2549656485517414
	GRADIENT BOOSTING REGRESSOR (RMSE): 0.24862828275023885
Dataset con rimozione	dei valori delle altre due dimensioni conosciute
Valence	
	LINEAR REGRESSOR: (RMSE): 0.2540273631640879
	RANDOM FOREST REGRESSOR (RMSE): 0.26673362096026526
Arousal	RANDOM FOREST REGRESSOR (RMSE): 0.26673362096026526 GRADIENT BOOSTING REGRESSOR (RMSE): 0.2655104007531102
Arousal	RANDOM FOREST REGRESSOR (RMSE): 0.26673362096026526  GRADIENT BOOSTING REGRESSOR (RMSE): 0.2655104007531102  LINEAR REGRESSOR: (RMSE): 0.22288699531892842
Arousal	RANDOM FOREST REGRESSOR (RMSE): 0.26673362096026526  GRADIENT BOOSTING REGRESSOR (RMSE): 0.2655104007531102  LINEAR REGRESSOR: (RMSE): 0.22288699531892842  RANDOM FOREST REGRESSOR (RMSE): 0.23210506639257164
	RANDOM FOREST REGRESSOR (RMSE): 0.26673362096026526  GRADIENT BOOSTING REGRESSOR (RMSE): 0.2655104007531102  LINEAR REGRESSOR: (RMSE): 0.22288699531892842
Arousal Dominance	RANDOM FOREST REGRESSOR (RMSE): 0.26673362096026526 GRADIENT BOOSTING REGRESSOR (RMSE): 0.2655104007531102  LINEAR REGRESSOR: (RMSE): 0.22288699531892842  RANDOM FOREST REGRESSOR (RMSE): 0.23210506639257164  GRADIENT BOOSTING REGRESSOR (RMSE): 0.2286469042092359
	RANDOM FOREST REGRESSOR (RMSE): 0.26673362096026526 GRADIENT BOOSTING REGRESSOR (RMSE): 0.2655104007531102  LINEAR REGRESSOR: (RMSE): 0.22288699531892842  RANDOM FOREST REGRESSOR (RMSE): 0.23210506639257164  GRADIENT BOOSTING REGRESSOR (RMSE): 0.2286469042092359  LINEAR REGRESSOR: (RMSE): 0.1946128872410488
	RANDOM FOREST REGRESSOR (RMSE): 0.26673362096026526 GRADIENT BOOSTING REGRESSOR (RMSE): 0.2655104007531102  LINEAR REGRESSOR: (RMSE): 0.22288699531892842 RANDOM FOREST REGRESSOR (RMSE): 0.23210506639257164 GRADIENT BOOSTING REGRESSOR (RMSE): 0.2286469042092359  LINEAR REGRESSOR: (RMSE): 0.1946128872410488 RANDOM FOREST REGRESSOR (RMSE): 0.19542398810166992
	RANDOM FOREST REGRESSOR (RMSE): 0.26673362096026526 GRADIENT BOOSTING REGRESSOR (RMSE): 0.2655104007531102  LINEAR REGRESSOR: (RMSE): 0.22288699531892842  RANDOM FOREST REGRESSOR (RMSE): 0.23210506639257164  GRADIENT BOOSTING REGRESSOR (RMSE): 0.2286469042092359  LINEAR REGRESSOR: (RMSE): 0.1946128872410488
Dominance	RANDOM FOREST REGRESSOR (RMSE): 0.26673362096026526 GRADIENT BOOSTING REGRESSOR (RMSE): 0.2655104007531102  LINEAR REGRESSOR: (RMSE): 0.22288699531892842 RANDOM FOREST REGRESSOR (RMSE): 0.23210506639257164 GRADIENT BOOSTING REGRESSOR (RMSE): 0.2286469042092359  LINEAR REGRESSOR: (RMSE): 0.1946128872410488 RANDOM FOREST REGRESSOR (RMSE): 0.19542398810166992 GRADIENT BOOSTING REGRESSOR (RMSE): 0.195265173381374
Dominance  Dataset con rimozione	RANDOM FOREST REGRESSOR (RMSE): 0.26673362096026526 GRADIENT BOOSTING REGRESSOR (RMSE): 0.2655104007531102  LINEAR REGRESSOR: (RMSE): 0.22288699531892842 RANDOM FOREST REGRESSOR (RMSE): 0.23210506639257164 GRADIENT BOOSTING REGRESSOR (RMSE): 0.2286469042092359  LINEAR REGRESSOR: (RMSE): 0.1946128872410488 RANDOM FOREST REGRESSOR (RMSE): 0.19542398810166992
Dominance	RANDOM FOREST REGRESSOR (RMSE): 0.26673362096026526 GRADIENT BOOSTING REGRESSOR (RMSE): 0.2655104007531102  LINEAR REGRESSOR: (RMSE): 0.22288699531892842 RANDOM FOREST REGRESSOR (RMSE): 0.23210506639257164 GRADIENT BOOSTING REGRESSOR (RMSE): 0.2286469042092359  LINEAR REGRESSOR: (RMSE): 0.1946128872410488 RANDOM FOREST REGRESSOR (RMSE): 0.19542398810166992 GRADIENT BOOSTING REGRESSOR (RMSE): 0.195265173381374  della codifica dell'emozione e dei valori delle altre due dimensioni conosciute
Dominance  Dataset con rimozione	RANDOM FOREST REGRESSOR (RMSE): 0.26673362096026526 GRADIENT BOOSTING REGRESSOR (RMSE): 0.2655104007531102  LINEAR REGRESSOR: (RMSE): 0.22288699531892842 RANDOM FOREST REGRESSOR (RMSE): 0.23210506639257164 GRADIENT BOOSTING REGRESSOR (RMSE): 0.2286469042092359  LINEAR REGRESSOR: (RMSE): 0.1946128872410488 RANDOM FOREST REGRESSOR (RMSE): 0.19542398810166992 GRADIENT BOOSTING REGRESSOR (RMSE): 0.195265173381374  della codifica dell'emozione e dei valori delle altre due dimensioni conosciute  LINEAR REGRESSOR: (RMSE): 0.25406405929794085
Dominance  Dataset con rimozione	RANDOM FOREST REGRESSOR (RMSE): 0.26673362096026526 GRADIENT BOOSTING REGRESSOR (RMSE): 0.2655104007531102  LINEAR REGRESSOR: (RMSE): 0.22288699531892842 RANDOM FOREST REGRESSOR (RMSE): 0.23210506639257164 GRADIENT BOOSTING REGRESSOR (RMSE): 0.2286469042092359  LINEAR REGRESSOR: (RMSE): 0.1946128872410488 RANDOM FOREST REGRESSOR (RMSE): 0.19542398810166992 GRADIENT BOOSTING REGRESSOR (RMSE): 0.195265173381374  della codifica dell'emozione e dei valori delle altre due dimensioni conosciute  LINEAR REGRESSOR: (RMSE): 0.25406405929794085 RANDOM FOREST REGRESSOR (RMSE): 0.2758160413961452
Dominance  Dataset con rimozione  Valence	RANDOM FOREST REGRESSOR (RMSE): 0.26673362096026526 GRADIENT BOOSTING REGRESSOR (RMSE): 0.2655104007531102  LINEAR REGRESSOR: (RMSE): 0.22288699531892842 RANDOM FOREST REGRESSOR (RMSE): 0.23210506639257164 GRADIENT BOOSTING REGRESSOR (RMSE): 0.2286469042092359  LINEAR REGRESSOR: (RMSE): 0.1946128872410488 RANDOM FOREST REGRESSOR (RMSE): 0.19542398810166992 GRADIENT BOOSTING REGRESSOR (RMSE): 0.195265173381374  della codifica dell'emozione e dei valori delle altre due dimensioni conosciute  LINEAR REGRESSOR: (RMSE): 0.25406405929794085
Dominance  Dataset con rimozione	RANDOM FOREST REGRESSOR (RMSE): 0.26673362096026526 GRADIENT BOOSTING REGRESSOR (RMSE): 0.2655104007531102  LINEAR REGRESSOR: (RMSE): 0.22288699531892842 RANDOM FOREST REGRESSOR (RMSE): 0.23210506639257164 GRADIENT BOOSTING REGRESSOR (RMSE): 0.2286469042092359  LINEAR REGRESSOR: (RMSE): 0.1946128872410488 RANDOM FOREST REGRESSOR (RMSE): 0.19542398810166992 GRADIENT BOOSTING REGRESSOR (RMSE): 0.195265173381374  della codifica dell'emozione e dei valori delle altre due dimensioni conosciute  LINEAR REGRESSOR: (RMSE): 0.25406405929794085 RANDOM FOREST REGRESSOR (RMSE): 0.2758160413961452 GRADIENT BOOSTING REGRESSOR (RMSE): 0.27201817960797864
Dominance  Dataset con rimozione  Valence	RANDOM FOREST REGRESSOR (RMSE): 0.26673362096026526 GRADIENT BOOSTING REGRESSOR (RMSE): 0.2655104007531102  LINEAR REGRESSOR: (RMSE): 0.22288699531892842 RANDOM FOREST REGRESSOR (RMSE): 0.23210506639257164 GRADIENT BOOSTING REGRESSOR (RMSE): 0.2286469042092359  LINEAR REGRESSOR: (RMSE): 0.1946128872410488 RANDOM FOREST REGRESSOR (RMSE): 0.19542398810166992 GRADIENT BOOSTING REGRESSOR (RMSE): 0.195265173381374  della codifica dell'emozione e dei valori delle altre due dimensioni conosciute  LINEAR REGRESSOR: (RMSE): 0.25406405929794085 RANDOM FOREST REGRESSOR (RMSE): 0.2758160413961452 GRADIENT BOOSTING REGRESSOR (RMSE): 0.2758160413961452 GRADIENT BOOSTING REGRESSOR (RMSE): 0.27201817960797864  LINEAR REGRESSOR: (RMSE): 0.2234146205582774
Dominance  Dataset con rimozione  Valence	RANDOM FOREST REGRESSOR (RMSE): 0.26673362096026526 GRADIENT BOOSTING REGRESSOR (RMSE): 0.2655104007531102  LINEAR REGRESSOR: (RMSE): 0.22288699531892842 RANDOM FOREST REGRESSOR (RMSE): 0.23210506639257164 GRADIENT BOOSTING REGRESSOR (RMSE): 0.2286469042092359  LINEAR REGRESSOR: (RMSE): 0.1946128872410488 RANDOM FOREST REGRESSOR (RMSE): 0.19542398810166992 GRADIENT BOOSTING REGRESSOR (RMSE): 0.195265173381374  della codifica dell'emozione e dei valori delle altre due dimensioni conosciute  LINEAR REGRESSOR: (RMSE): 0.25406405929794085 RANDOM FOREST REGRESSOR (RMSE): 0.2758160413961452 GRADIENT BOOSTING REGRESSOR (RMSE): 0.2758160413961452 GRADIENT BOOSTING REGRESSOR (RMSE): 0.27201817960797864  LINEAR REGRESSOR: (RMSE): 0.2234146205582774 RANDOM FOREST REGRESSOR (RMSE): 0.23511029700148572
Dataset con rimozione Valence  Arousal	RANDOM FOREST REGRESSOR (RMSE): 0.26673362096026526 GRADIENT BOOSTING REGRESSOR (RMSE): 0.2655104007531102  LINEAR REGRESSOR: (RMSE): 0.22288699531892842 RANDOM FOREST REGRESSOR (RMSE): 0.23210506639257164 GRADIENT BOOSTING REGRESSOR (RMSE): 0.2286469042092359  LINEAR REGRESSOR: (RMSE): 0.1946128872410488 RANDOM FOREST REGRESSOR (RMSE): 0.19542398810166992 GRADIENT BOOSTING REGRESSOR (RMSE): 0.195265173381374  della codifica dell'emozione e dei valori delle altre due dimensioni conosciute  LINEAR REGRESSOR: (RMSE): 0.25406405929794085 RANDOM FOREST REGRESSOR (RMSE): 0.2758160413961452 GRADIENT BOOSTING REGRESSOR (RMSE): 0.2758160413961452 GRADIENT BOOSTING REGRESSOR (RMSE): 0.27201817960797864  LINEAR REGRESSOR: (RMSE): 0.2234146205582774
Dominance  Dataset con rimozione  Valence	RANDOM FOREST REGRESSOR (RMSE): 0.26673362096026526 GRADIENT BOOSTING REGRESSOR (RMSE): 0.2655104007531102  LINEAR REGRESSOR: (RMSE): 0.22288699531892842 RANDOM FOREST REGRESSOR (RMSE): 0.23210506639257164 GRADIENT BOOSTING REGRESSOR (RMSE): 0.2286469042092359  LINEAR REGRESSOR: (RMSE): 0.1946128872410488 RANDOM FOREST REGRESSOR (RMSE): 0.19542398810166992 GRADIENT BOOSTING REGRESSOR (RMSE): 0.195265173381374  della codifica dell'emozione e dei valori delle altre due dimensioni conosciute  LINEAR REGRESSOR: (RMSE): 0.25406405929794085 RANDOM FOREST REGRESSOR (RMSE): 0.2758160413961452 GRADIENT BOOSTING REGRESSOR (RMSE): 0.27201817960797864  LINEAR REGRESSOR: (RMSE): 0.2234146205582774 RANDOM FOREST REGRESSOR (RMSE): 0.23511029700148572 GRADIENT BOOSTING REGRESSOR (RMSE): 0.23107478237965523
Dataset con rimozione Valence  Arousal	RANDOM FOREST REGRESSOR (RMSE): 0.26673362096026526 GRADIENT BOOSTING REGRESSOR (RMSE): 0.2655104007531102  LINEAR REGRESSOR: (RMSE): 0.22288699531892842 RANDOM FOREST REGRESSOR (RMSE): 0.23210506639257164 GRADIENT BOOSTING REGRESSOR (RMSE): 0.2286469042092359  LINEAR REGRESSOR: (RMSE): 0.1946128872410488 RANDOM FOREST REGRESSOR (RMSE): 0.19542398810166992 GRADIENT BOOSTING REGRESSOR (RMSE): 0.195265173381374  della codifica dell'emozione e dei valori delle altre due dimensioni conosciute  LINEAR REGRESSOR: (RMSE): 0.25406405929794085 RANDOM FOREST REGRESSOR (RMSE): 0.2758160413961452 GRADIENT BOOSTING REGRESSOR (RMSE): 0.27201817960797864  LINEAR REGRESSOR: (RMSE): 0.2234146205582774 RANDOM FOREST REGRESSOR (RMSE): 0.23511029700148572 GRADIENT BOOSTING REGRESSOR (RMSE): 0.23107478237965523  LINEAR REGRESSOR: (RMSE): 0.19483215666177456
Dataset con rimozione Valence  Arousal	RANDOM FOREST REGRESSOR (RMSE): 0.26673362096026526 GRADIENT BOOSTING REGRESSOR (RMSE): 0.2655104007531102  LINEAR REGRESSOR: (RMSE): 0.22288699531892842 RANDOM FOREST REGRESSOR (RMSE): 0.23210506639257164 GRADIENT BOOSTING REGRESSOR (RMSE): 0.2286469042092359  LINEAR REGRESSOR: (RMSE): 0.1946128872410488 RANDOM FOREST REGRESSOR (RMSE): 0.19542398810166992 GRADIENT BOOSTING REGRESSOR (RMSE): 0.195265173381374  della codifica dell'emozione e dei valori delle altre due dimensioni conosciute  LINEAR REGRESSOR: (RMSE): 0.25406405929794085 RANDOM FOREST REGRESSOR (RMSE): 0.2758160413961452 GRADIENT BOOSTING REGRESSOR (RMSE): 0.27201817960797864  LINEAR REGRESSOR: (RMSE): 0.2234146205582774 RANDOM FOREST REGRESSOR (RMSE): 0.23511029700148572 GRADIENT BOOSTING REGRESSOR (RMSE): 0.23107478237965523