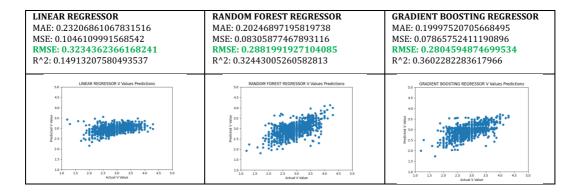
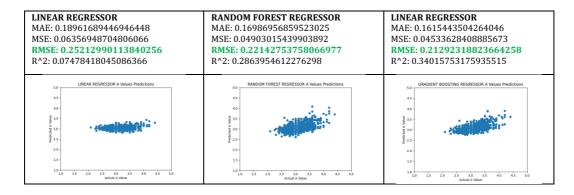
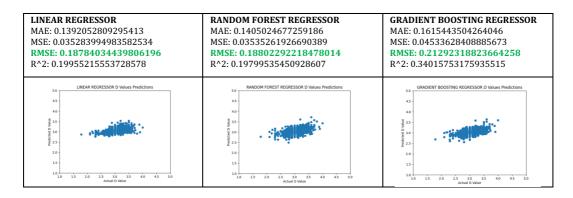
Dataset con le feature della frase

Valence



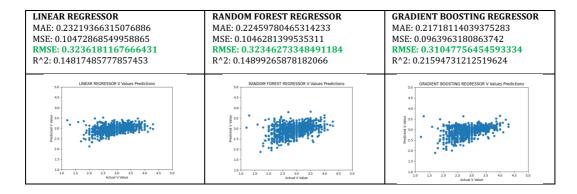
Arousal



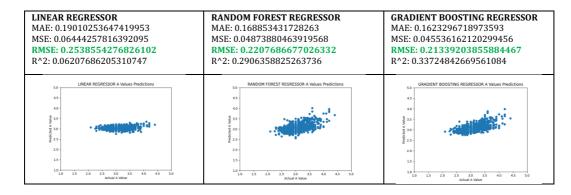


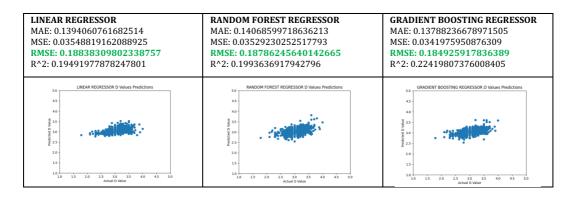
1. Rimozione della codifica dell'emozione

Valence



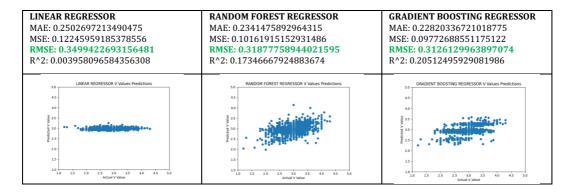
Arousal



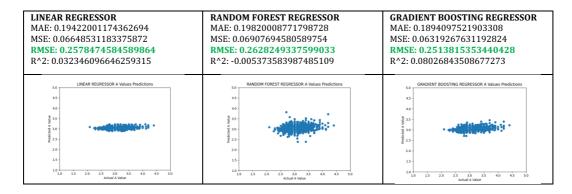


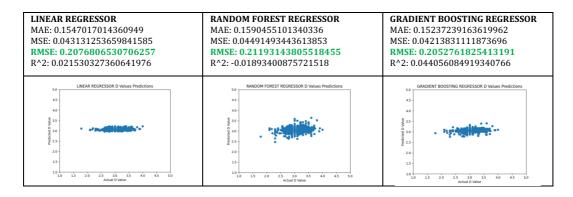
2. Rimozione dei valori delle altre due dimensioni conosciute

Valence



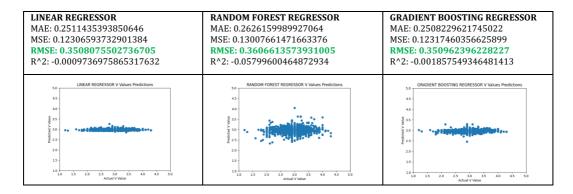
Arousal



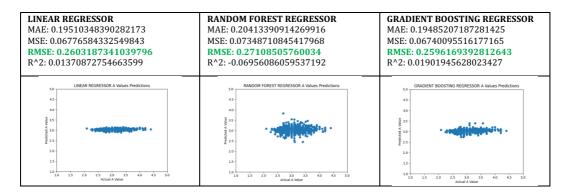


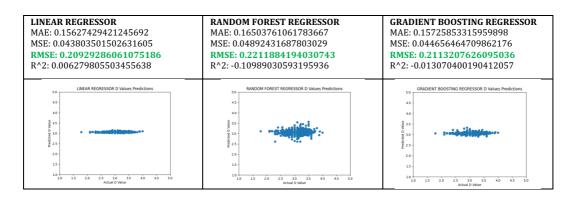
3. Rimozione della codifica dell'emozione e dei valori delle altre due dimensioni conosciute

Valence



Arousal





- Summary dei risultati

Il risultati migliori per i valori di Valence, Arousal si hanno sul dataset ottenuto dalla rimozione della codifica dell'emozione e dei valori delle altre due dimensioni conosciute, con il modello random forest. Per il valore di Dominance si notano valori RMSE simili, per tutte le versioni del dataset, tra i modelli evidenziati in verde (indicanti i risultati migliori in termini di RMSE). Di seguito una tabella ricapitolativa dove vengono mostrati solamente i valori della metrica RMSE per ogni dataset e modello utilizzato:

Dataset con le feature d	della frace
Valence	uciia ii ase
valence	LINEAR REGRESSOR: (RMSE): 0.3234362366168241
	RANDOM FOREST REGRESSOR (RMSE): 0.2881991927104085
	· · ·
A	GRADIENT BOOSTING REGRESSOR (RMSE): 0.2804594874699534
Arousal	HAIFAD DECDECCOD, /DAVCE), O 2524200044204025C
	LINEAR REGRESSOR: (RMSE): 0.25212990113840256 RANDOM FOREST REGRESSOR (RMSE): 0.22142753758066977
	GRADIENT BOOSTING REGRESSOR (RMSE): 0.22292318823664258
Dominance	UNADIENT BOOSTING REURESSON (RINSE). 0.21232318823004238
Dominance	LINEAR REGRESSOR: (RMSE): 0.18784034439806196
	RANDOM FOREST REGRESSOR (RMSE): 0.18802292218478014
	GRADIENT BOOSTING REGRESSOR (RMSE): 0.21292318823664258
	THADIENT BOOSTING REGRESSON (RIVISE). 0.22232310023004230
Datacet con rimezione	della codifica dell'emozione
	della codifica dell'emozione
Valence	LINICAD DECDESCOD. (DMCE). O 2226101167666421
	LINEAR REGRESSOR: (RMSE): 0.3236181167666431 RANDOM FOREST REGRESSOR (RMSE): 0.32346273348491184
	GRADIENT BOOSTING REGRESSOR (RMSE): 0.32340273348491184
Arousal	CINDIENT BOOTHING REGISCOOK (RINGE): 0.31047730434333334
Alousal	LINEAR REGRESSOR: (RMSE): 0.2538554276826102
	RANDOM FOREST REGRESSOR (RMSE): 0.2207686677026332
	GRADIENT BOOSTING REGRESSOR (RMSE): 0.21339203855884467
Dominance	
20	LINEAR REGRESSOR: (RMSE): 0.18838309802338757
	RANDOM FOREST REGRESSOR (RMSE): 0.18786245640142665
	GRADIENT BOOSTING REGRESSOR (RMSE): 0.184925917836389
Dataset con rimozione	dei valori delle altre due dimensioni conosciute
Dataset con rimozione Valence	dei valori delle altre due dimensioni conosciute
	dei valori delle altre due dimensioni conosciute LINEAR REGRESSOR: (RMSE): 0.3499422693156481 RANDOM FOREST REGRESSOR (RMSE): 0.31877758944021595
	LINEAR REGRESSOR: (RMSE): 0.3499422693156481
	LINEAR REGRESSOR: (RMSE): 0.3499422693156481 RANDOM FOREST REGRESSOR (RMSE): 0.31877758944021595
Valence	LINEAR REGRESSOR: (RMSE): 0.3499422693156481 RANDOM FOREST REGRESSOR (RMSE): 0.31877758944021595
Valence	LINEAR REGRESSOR: (RMSE): 0.3499422693156481 RANDOM FOREST REGRESSOR (RMSE): 0.31877758944021595 GRADIENT BOOSTING REGRESSOR (RMSE): 0.3126129963897074
Valence	LINEAR REGRESSOR: (RMSE): 0.3499422693156481 RANDOM FOREST REGRESSOR (RMSE): 0.31877758944021595 GRADIENT BOOSTING REGRESSOR (RMSE): 0.3126129963897074 LINEAR REGRESSOR: (RMSE): 0.2578474584589864
Valence	LINEAR REGRESSOR: (RMSE): 0.3499422693156481 RANDOM FOREST REGRESSOR (RMSE): 0.31877758944021595 GRADIENT BOOSTING REGRESSOR (RMSE): 0.3126129963897074 LINEAR REGRESSOR: (RMSE): 0.2578474584589864 RANDOM FOREST REGRESSOR (RMSE): 0.2628249337599033
Valence Arousal	LINEAR REGRESSOR: (RMSE): 0.3499422693156481 RANDOM FOREST REGRESSOR (RMSE): 0.31877758944021595 GRADIENT BOOSTING REGRESSOR (RMSE): 0.3126129963897074 LINEAR REGRESSOR: (RMSE): 0.2578474584589864 RANDOM FOREST REGRESSOR (RMSE): 0.2628249337599033
Valence Arousal	LINEAR REGRESSOR: (RMSE): 0.3499422693156481 RANDOM FOREST REGRESSOR (RMSE): 0.31877758944021595 GRADIENT BOOSTING REGRESSOR (RMSE): 0.3126129963897074 LINEAR REGRESSOR: (RMSE): 0.2578474584589864 RANDOM FOREST REGRESSOR (RMSE): 0.2628249337599033 GRADIENT BOOSTING REGRESSOR (RMSE): 0.2513815353440428 LINEAR REGRESSOR: (RMSE): 0.2076806530706257 RANDOM FOREST REGRESSOR (RMSE): 0.21193143805518455
Valence Arousal	LINEAR REGRESSOR: (RMSE): 0.3499422693156481 RANDOM FOREST REGRESSOR (RMSE): 0.31877758944021595 GRADIENT BOOSTING REGRESSOR (RMSE): 0.3126129963897074 LINEAR REGRESSOR: (RMSE): 0.2578474584589864 RANDOM FOREST REGRESSOR (RMSE): 0.2628249337599033 GRADIENT BOOSTING REGRESSOR (RMSE): 0.2513815353440428 LINEAR REGRESSOR: (RMSE): 0.2076806530706257
Valence Arousal Dominance	LINEAR REGRESSOR: (RMSE): 0.3499422693156481 RANDOM FOREST REGRESSOR (RMSE): 0.31877758944021595 GRADIENT BOOSTING REGRESSOR (RMSE): 0.3126129963897074 LINEAR REGRESSOR: (RMSE): 0.2578474584589864 RANDOM FOREST REGRESSOR (RMSE): 0.2628249337599033 GRADIENT BOOSTING REGRESSOR (RMSE): 0.2513815353440428 LINEAR REGRESSOR: (RMSE): 0.2076806530706257 RANDOM FOREST REGRESSOR (RMSE): 0.21193143805518455 GRADIENT BOOSTING REGRESSOR (RMSE): 0.2052761825413191
Arousal Dominance Dataset con rimozione	LINEAR REGRESSOR: (RMSE): 0.3499422693156481 RANDOM FOREST REGRESSOR (RMSE): 0.31877758944021595 GRADIENT BOOSTING REGRESSOR (RMSE): 0.3126129963897074 LINEAR REGRESSOR: (RMSE): 0.2578474584589864 RANDOM FOREST REGRESSOR (RMSE): 0.2628249337599033 GRADIENT BOOSTING REGRESSOR (RMSE): 0.2513815353440428 LINEAR REGRESSOR: (RMSE): 0.2076806530706257 RANDOM FOREST REGRESSOR (RMSE): 0.21193143805518455
Valence Arousal Dominance	LINEAR REGRESSOR: (RMSE): 0.3499422693156481 RANDOM FOREST REGRESSOR (RMSE): 0.31877758944021595 GRADIENT BOOSTING REGRESSOR (RMSE): 0.3126129963897074 LINEAR REGRESSOR: (RMSE): 0.2578474584589864 RANDOM FOREST REGRESSOR (RMSE): 0.2628249337599033 GRADIENT BOOSTING REGRESSOR (RMSE): 0.2513815353440428 LINEAR REGRESSOR: (RMSE): 0.2076806530706257 RANDOM FOREST REGRESSOR (RMSE): 0.21193143805518455 GRADIENT BOOSTING REGRESSOR (RMSE): 0.2052761825413191
Arousal Dominance Dataset con rimozione	LINEAR REGRESSOR: (RMSE): 0.3499422693156481 RANDOM FOREST REGRESSOR (RMSE): 0.31877758944021595 GRADIENT BOOSTING REGRESSOR (RMSE): 0.3126129963897074 LINEAR REGRESSOR: (RMSE): 0.2578474584589864 RANDOM FOREST REGRESSOR (RMSE): 0.2628249337599033 GRADIENT BOOSTING REGRESSOR (RMSE): 0.2513815353440428 LINEAR REGRESSOR: (RMSE): 0.2076806530706257 RANDOM FOREST REGRESSOR (RMSE): 0.21193143805518455 GRADIENT BOOSTING REGRESSOR (RMSE): 0.2052761825413191
Arousal Dominance Dataset con rimozione	LINEAR REGRESSOR: (RMSE): 0.3499422693156481 RANDOM FOREST REGRESSOR (RMSE): 0.31877758944021595 GRADIENT BOOSTING REGRESSOR (RMSE): 0.3126129963897074 LINEAR REGRESSOR: (RMSE): 0.2578474584589864 RANDOM FOREST REGRESSOR (RMSE): 0.2628249337599033 GRADIENT BOOSTING REGRESSOR (RMSE): 0.2513815353440428 LINEAR REGRESSOR: (RMSE): 0.2076806530706257 RANDOM FOREST REGRESSOR (RMSE): 0.21193143805518455 GRADIENT BOOSTING REGRESSOR (RMSE): 0.2052761825413191 della codifica dell'emozione e dei valori delle altre due dimensioni conosciute LINEAR REGRESSOR: (RMSE): 0.3508075502736705 RANDOM FOREST REGRESSOR (RMSE): 0.3606613573931005
Arousal Dominance Dataset con rimozione Valence	LINEAR REGRESSOR: (RMSE): 0.3499422693156481 RANDOM FOREST REGRESSOR (RMSE): 0.31877758944021595 GRADIENT BOOSTING REGRESSOR (RMSE): 0.3126129963897074 LINEAR REGRESSOR: (RMSE): 0.2578474584589864 RANDOM FOREST REGRESSOR (RMSE): 0.2628249337599033 GRADIENT BOOSTING REGRESSOR (RMSE): 0.2513815353440428 LINEAR REGRESSOR: (RMSE): 0.2076806530706257 RANDOM FOREST REGRESSOR (RMSE): 0.21193143805518455 GRADIENT BOOSTING REGRESSOR (RMSE): 0.2052761825413191 della codifica dell'emozione e dei valori delle altre due dimensioni conosciute LINEAR REGRESSOR: (RMSE): 0.3508075502736705
Arousal Dominance Dataset con rimozione	LINEAR REGRESSOR: (RMSE): 0.3499422693156481 RANDOM FOREST REGRESSOR (RMSE): 0.31877758944021595 GRADIENT BOOSTING REGRESSOR (RMSE): 0.3126129963897074 LINEAR REGRESSOR: (RMSE): 0.2578474584589864 RANDOM FOREST REGRESSOR (RMSE): 0.2628249337599033 GRADIENT BOOSTING REGRESSOR (RMSE): 0.2513815353440428 LINEAR REGRESSOR: (RMSE): 0.2076806530706257 RANDOM FOREST REGRESSOR (RMSE): 0.21193143805518455 GRADIENT BOOSTING REGRESSOR (RMSE): 0.2052761825413191 della codifica dell'emozione e dei valori delle altre due dimensioni conosciute LINEAR REGRESSOR: (RMSE): 0.3508075502736705 RANDOM FOREST REGRESSOR (RMSE): 0.3606613573931005 GRADIENT BOOSTING REGRESSOR (RMSE): 0.350962396228227
Arousal Dominance Dataset con rimozione Valence	LINEAR REGRESSOR: (RMSE): 0.3499422693156481 RANDOM FOREST REGRESSOR (RMSE): 0.31877758944021595 GRADIENT BOOSTING REGRESSOR (RMSE): 0.3126129963897074 LINEAR REGRESSOR: (RMSE): 0.2578474584589864 RANDOM FOREST REGRESSOR (RMSE): 0.2628249337599033 GRADIENT BOOSTING REGRESSOR (RMSE): 0.2513815353440428 LINEAR REGRESSOR: (RMSE): 0.2076806530706257 RANDOM FOREST REGRESSOR (RMSE): 0.21193143805518455 GRADIENT BOOSTING REGRESSOR (RMSE): 0.2052761825413191 della codifica dell'emozione e dei valori delle altre due dimensioni conosciute LINEAR REGRESSOR: (RMSE): 0.3508075502736705 RANDOM FOREST REGRESSOR (RMSE): 0.35066613573931005 GRADIENT BOOSTING REGRESSOR (RMSE): 0.350962396228227 LINEAR REGRESSOR: (RMSE): 0.2603187341039796
Arousal Dominance Dataset con rimozione Valence	LINEAR REGRESSOR: (RMSE): 0.3499422693156481 RANDOM FOREST REGRESSOR (RMSE): 0.31877758944021595 GRADIENT BOOSTING REGRESSOR (RMSE): 0.3126129963897074 LINEAR REGRESSOR: (RMSE): 0.2578474584589864 RANDOM FOREST REGRESSOR (RMSE): 0.2628249337599033 GRADIENT BOOSTING REGRESSOR (RMSE): 0.2513815353440428 LINEAR REGRESSOR: (RMSE): 0.2076806530706257 RANDOM FOREST REGRESSOR (RMSE): 0.21193143805518455 GRADIENT BOOSTING REGRESSOR (RMSE): 0.2052761825413191 della codifica dell'emozione e dei valori delle altre due dimensioni conosciute LINEAR REGRESSOR: (RMSE): 0.3508075502736705 RANDOM FOREST REGRESSOR (RMSE): 0.3606613573931005 GRADIENT BOOSTING REGRESSOR (RMSE): 0.350962396228227 LINEAR REGRESSOR: (RMSE): 0.2603187341039796 RANDOM FOREST REGRESSOR (RMSE): 0.27108505760034
Dataset con rimozione Valence Arousal	LINEAR REGRESSOR: (RMSE): 0.3499422693156481 RANDOM FOREST REGRESSOR (RMSE): 0.31877758944021595 GRADIENT BOOSTING REGRESSOR (RMSE): 0.3126129963897074 LINEAR REGRESSOR: (RMSE): 0.2578474584589864 RANDOM FOREST REGRESSOR (RMSE): 0.2628249337599033 GRADIENT BOOSTING REGRESSOR (RMSE): 0.2513815353440428 LINEAR REGRESSOR: (RMSE): 0.2076806530706257 RANDOM FOREST REGRESSOR (RMSE): 0.21193143805518455 GRADIENT BOOSTING REGRESSOR (RMSE): 0.2052761825413191 della codifica dell'emozione e dei valori delle altre due dimensioni conosciute LINEAR REGRESSOR: (RMSE): 0.3508075502736705 RANDOM FOREST REGRESSOR (RMSE): 0.35066613573931005 GRADIENT BOOSTING REGRESSOR (RMSE): 0.350962396228227 LINEAR REGRESSOR: (RMSE): 0.2603187341039796
Arousal Dominance Dataset con rimozione Valence	LINEAR REGRESSOR: (RMSE): 0.3499422693156481 RANDOM FOREST REGRESSOR (RMSE): 0.31877758944021595 GRADIENT BOOSTING REGRESSOR (RMSE): 0.3126129963897074 LINEAR REGRESSOR: (RMSE): 0.2578474584589864 RANDOM FOREST REGRESSOR (RMSE): 0.2628249337599033 GRADIENT BOOSTING REGRESSOR (RMSE): 0.2513815353440428 LINEAR REGRESSOR: (RMSE): 0.2076806530706257 RANDOM FOREST REGRESSOR (RMSE): 0.21193143805518455 GRADIENT BOOSTING REGRESSOR (RMSE): 0.2052761825413191 della codifica dell'emozione e dei valori delle altre due dimensioni conosciute LINEAR REGRESSOR: (RMSE): 0.3508075502736705 RANDOM FOREST REGRESSOR (RMSE): 0.3606613573931005 GRADIENT BOOSTING REGRESSOR (RMSE: 0.350962396228227 LINEAR REGRESSOR: (RMSE): 0.2603187341039796 RANDOM FOREST REGRESSOR (RMSE): 0.27108505760034 GRADIENT BOOSTING REGRESSOR (RMSE): 0.2596169392812643
Dataset con rimozione Valence Arousal	LINEAR REGRESSOR: (RMSE): 0.3499422693156481 RANDOM FOREST REGRESSOR (RMSE): 0.31877758944021595 GRADIENT BOOSTING REGRESSOR (RMSE): 0.3126129963897074 LINEAR REGRESSOR: (RMSE): 0.2578474584589864 RANDOM FOREST REGRESSOR (RMSE): 0.2628249337599033 GRADIENT BOOSTING REGRESSOR (RMSE): 0.2513815353440428 LINEAR REGRESSOR: (RMSE): 0.2076806530706257 RANDOM FOREST REGRESSOR (RMSE): 0.21193143805518455 GRADIENT BOOSTING REGRESSOR (RMSE): 0.2052761825413191 della codifica dell'emozione e dei valori delle altre due dimensioni conosciute LINEAR REGRESSOR: (RMSE): 0.3508075502736705 RANDOM FOREST REGRESSOR (RMSE): 0.3606613573931005 GRADIENT BOOSTING REGRESSOR (RMSE): 0.350962396228227 LINEAR REGRESSOR: (RMSE): 0.2603187341039796 RANDOM FOREST REGRESSOR (RMSE): 0.27108505760034 GRADIENT BOOSTING REGRESSOR (RMSE): 0.27108505760034 GRADIENT BOOSTING REGRESSOR (RMSE): 0.2596169392812643 LINEAR REGRESSOR: (RMSE): 0.20929286061075186
Dataset con rimozione Valence Arousal	LINEAR REGRESSOR: (RMSE): 0.3499422693156481 RANDOM FOREST REGRESSOR (RMSE): 0.31877758944021595 GRADIENT BOOSTING REGRESSOR (RMSE): 0.3126129963897074 LINEAR REGRESSOR: (RMSE): 0.2578474584589864 RANDOM FOREST REGRESSOR (RMSE): 0.2628249337599033 GRADIENT BOOSTING REGRESSOR (RMSE): 0.2513815353440428 LINEAR REGRESSOR: (RMSE): 0.2076806530706257 RANDOM FOREST REGRESSOR (RMSE): 0.21193143805518455 GRADIENT BOOSTING REGRESSOR (RMSE): 0.2052761825413191 della codifica dell'emozione e dei valori delle altre due dimensioni conosciute LINEAR REGRESSOR: (RMSE): 0.3508075502736705 RANDOM FOREST REGRESSOR (RMSE): 0.3606613573931005 GRADIENT BOOSTING REGRESSOR (RMSE: 0.350962396228227 LINEAR REGRESSOR: (RMSE): 0.2603187341039796 RANDOM FOREST REGRESSOR (RMSE): 0.27108505760034 GRADIENT BOOSTING REGRESSOR (RMSE): 0.2596169392812643