Model Description

For this project, the model that I used is XGBRegressor that I imported from xgboost library that is available in vocareum as well. I first created the regressor object by setting these parameters (n_estimators, reg_lambda, gamma, max_depth). The Features I used for fitting the data using the regressor model are (user_avg, business_avg, fans, useful, cool ,funny, compliment_cool, compliment_more, compliment_cute, compliment_funny , compliment_profile , compliment_hot , compliment_note , compliment_photos lattitude_business, longitude_business) for every (user_id and business_id) and the target value used for the model is the rating of user_id on that particular business_id. Using these data attributes as featured and target values, I fit the model. After that using the same feature list for every (user, business) pair in test data I predicted the target values, which are ratings. This is how I developed the model. The features (user_avg, useful, cool ,funny, compliment_cool, compliment_more, compliment_cute, compliment_funny , compliment_profile , compliment_hot , compliment_note , compliment_photos) are taken from User data and the features (business_avg, lattitude_business, longitude_business) are taken from business data. After a bit of validating the model, the parameters I came down are n_estimators=360, reg_lambda=1, gamma=0.05, max_depth=6.