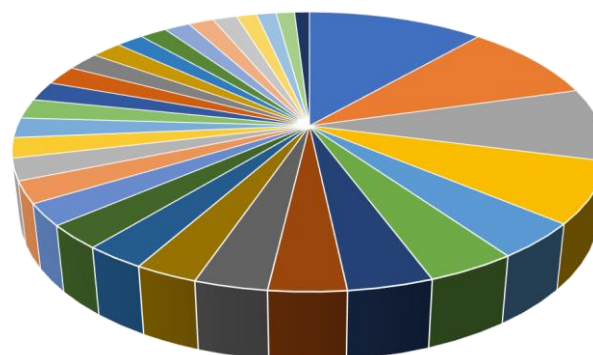


XGBoost (Extreme Gradient) Regressor Feature Importance Report

- 1MMaxo3
- all_day_ratio_single_tile_users
- o31Mavg
- Nb_susp_501Y_V2_3
- pm251Mavg
- Nb_susp_501Y_V1
- 1MMaxpm25
- 1MMaxco
- vac1nb
- vac2nb
- Smokers
- co1Mavg
- 1MMaxpm10
- co7davg
- no21Mavg
- Insuffisance respiratoire chronique grave (ALD14)
- minority
- all_day_bing_tiles_visited_relative_change
- pm101Mavg
- Insuffisance cardiaque grave, troubles du rythme graves, cardiopathies valvulaires graves, cardiopathies congénitales graves (ALD5)
- 1MMaxno2
- pm10
- o37davg
- idx
- pm107davg
- co
- no27davg
- o3
- no2
- pm257davg
- pm25



Setting aside the previous' day positive test data and number for the total of individuals currently hospitalized in each French departement because of COVID19 severe cases; the monthly trailing maximum (MTM) concentration in Ozone (O3) is determined by the XGBoost (Extreme Gradient) Regressor Machine Learning algorithm as being the most influent variable in forecasting the daily new number of severe COVID19 cases leading to hospitalizations. The following most important features for this underlying voting model are respectively facebook's mobility index and the number of tests made with suspicion of variant 20H/501Y.V2 (ZA), preceding pm 2,5 1M-Trailing-Averages and the number of tests made with suspicion of variant 20I/501Y.V1 (UK). This model needs to be fed a set of 33 features to make its prediction from.