

CAT

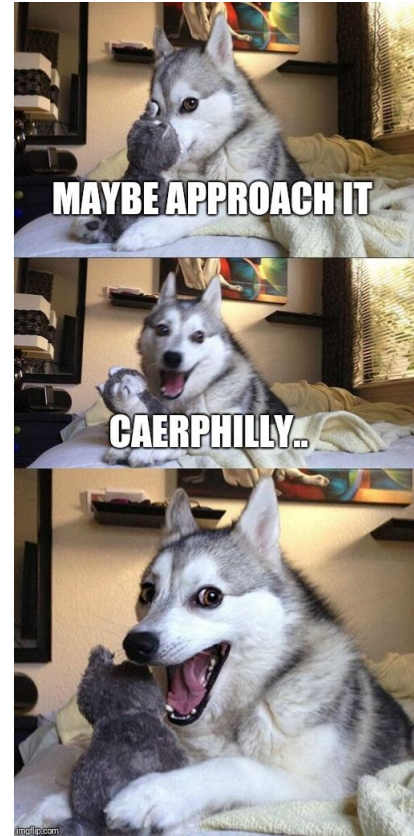


HACKILLINOIS - CATERPILLAR CHALLENGE

By: Pierre Motard, Zac Sanchez, Aumkar Renavikar
Team Oreo

OUR APPROACH

- 1) Data Cleaning
- 2) Data Exploration
- 3) Modelling
- 4) Predictions

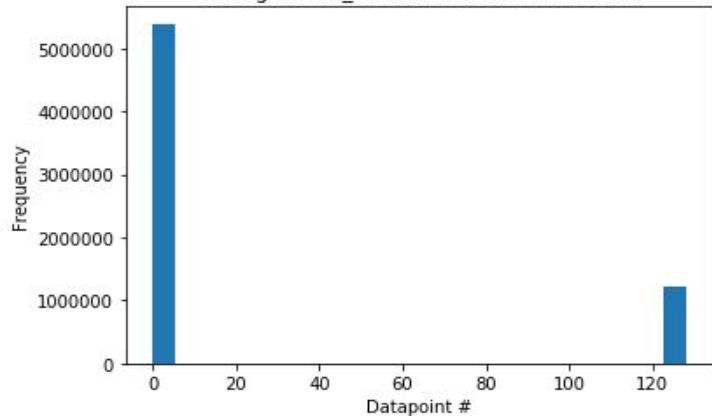


CHANNELS WE FOCUSED ON

['ch_1', 'ch_10', 'ch_100', 'ch_102', 'ch_105', 'ch_106', 'ch_109', 'ch_11',
'ch_110', 'ch_111', 'ch_13', 'ch_14', 'ch_177', 'ch_178', 'ch_179', 'ch_198',
'ch_218', 'ch_226', 'ch_257', 'ch_258', 'ch_266', 'ch_298', 'ch_305',
'ch_306', 'ch_307', 'ch_308', 'ch_31', 'ch_32', 'ch_33', 'ch_35', 'ch_36',
'ch_37', 'ch_38', 'ch_39', 'ch_4', 'ch_40', 'ch_41', 'ch_42', 'ch_43', 'ch_44',
'ch_46', 'ch_47', 'ch_48', 'ch_49', 'ch_50', 'ch_52', 'ch_53', 'ch_54', 'ch_55',
'ch_56', 'ch_57', 'ch_59', 'ch_60', 'ch_61', 'ch_62', 'ch_63', 'ch_64', 'ch_65',
'ch_7', 'ch_75', 'ch_76', 'ch_77', 'ch_79', 'ch_80', 'ch_81', 'ch_82', 'ch_83',
'ch_87', 'ch_88', 'ch_9', 'ch_90', 'ch_91', 'ch_93', 'ch_94', 'ch_95', 'ch_96',
'ch_98', 'ch_99']



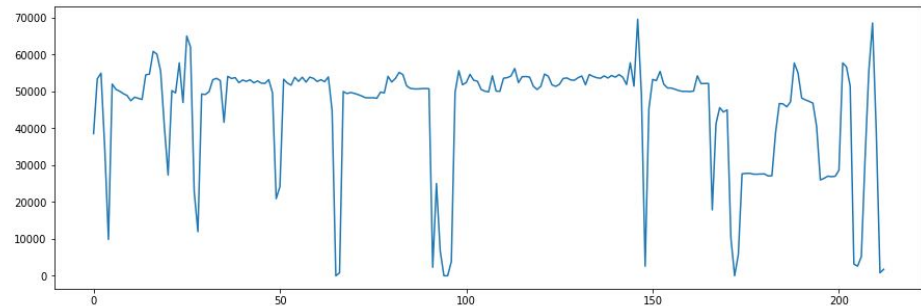
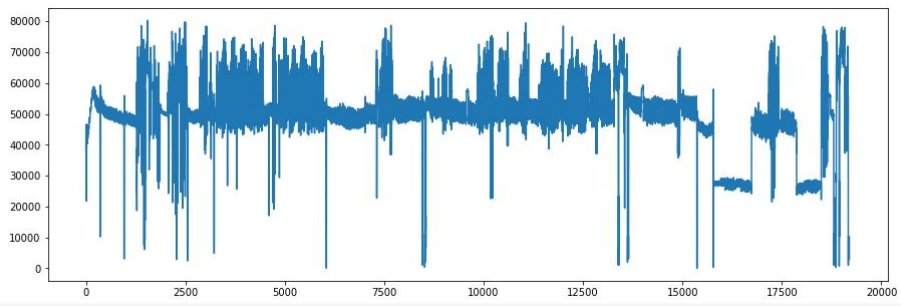
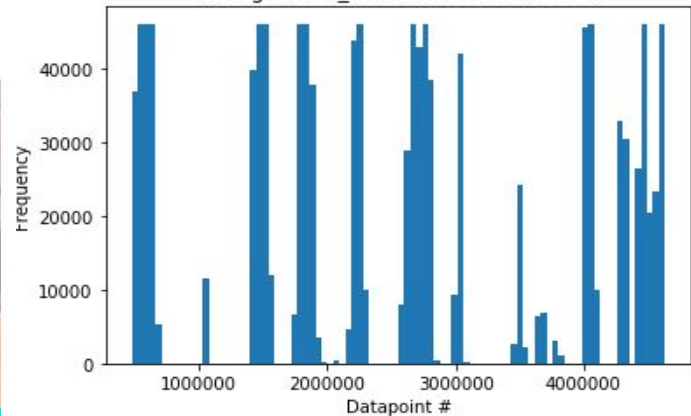
Histogram ch_2 (without noise reduction)



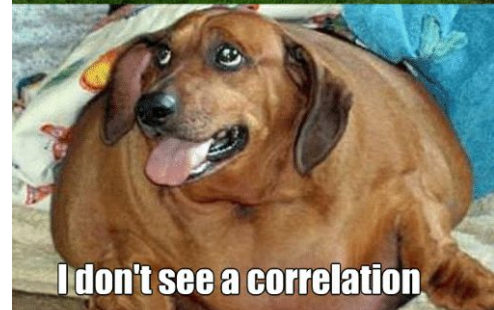
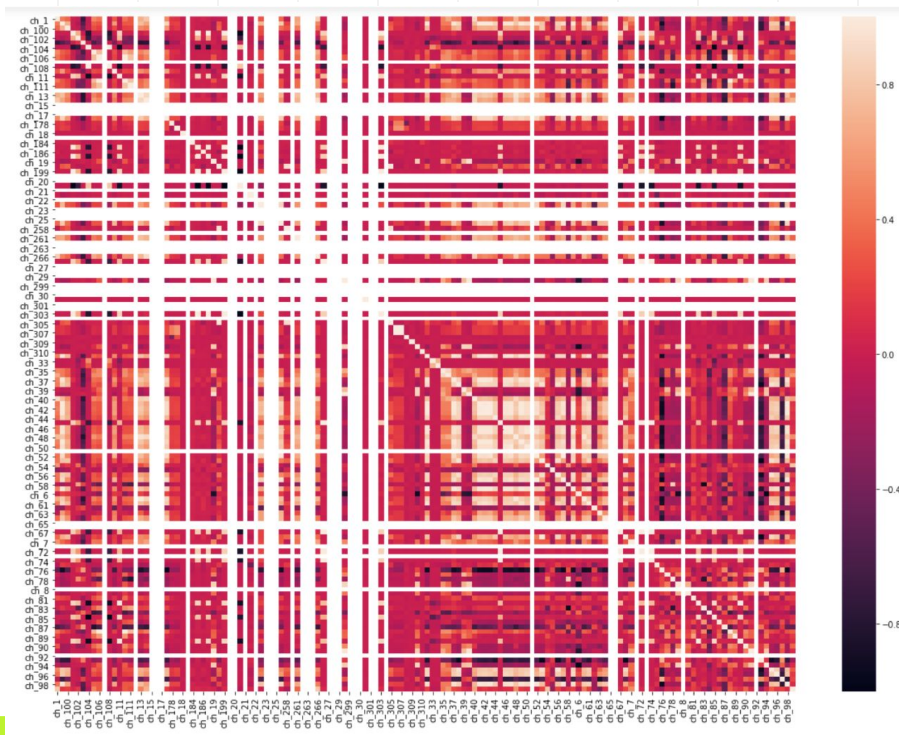
**Me holding my last
two brain cells together**

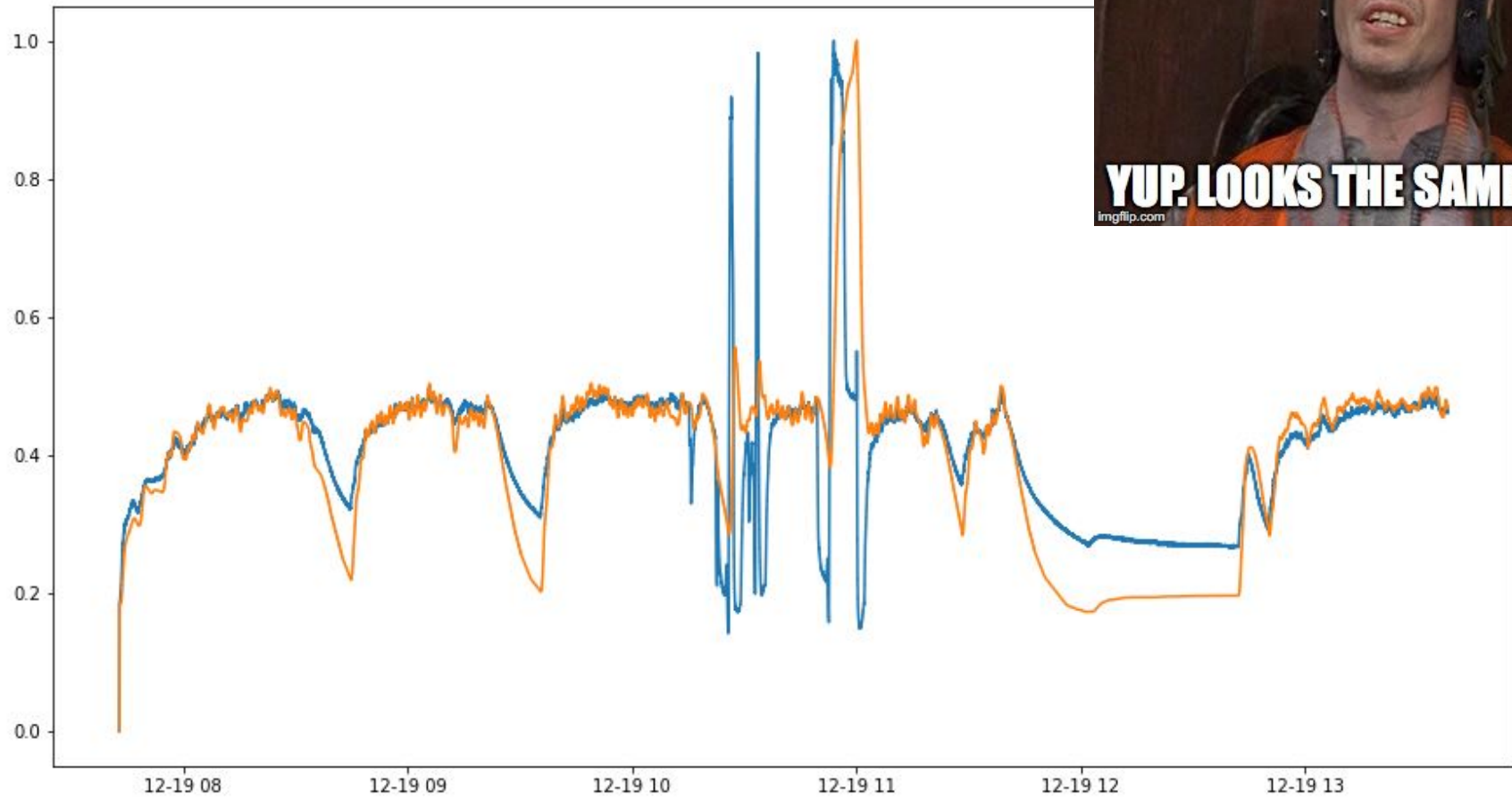


Histogram ch_2 (with noise reduction)

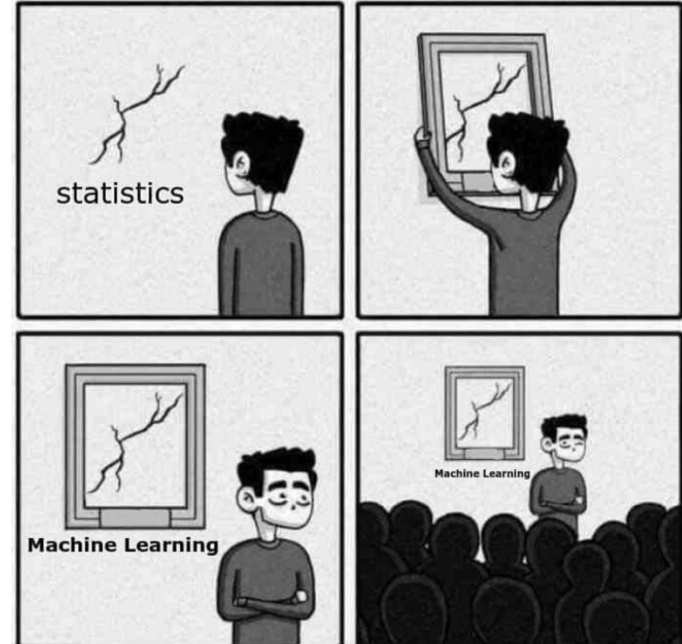
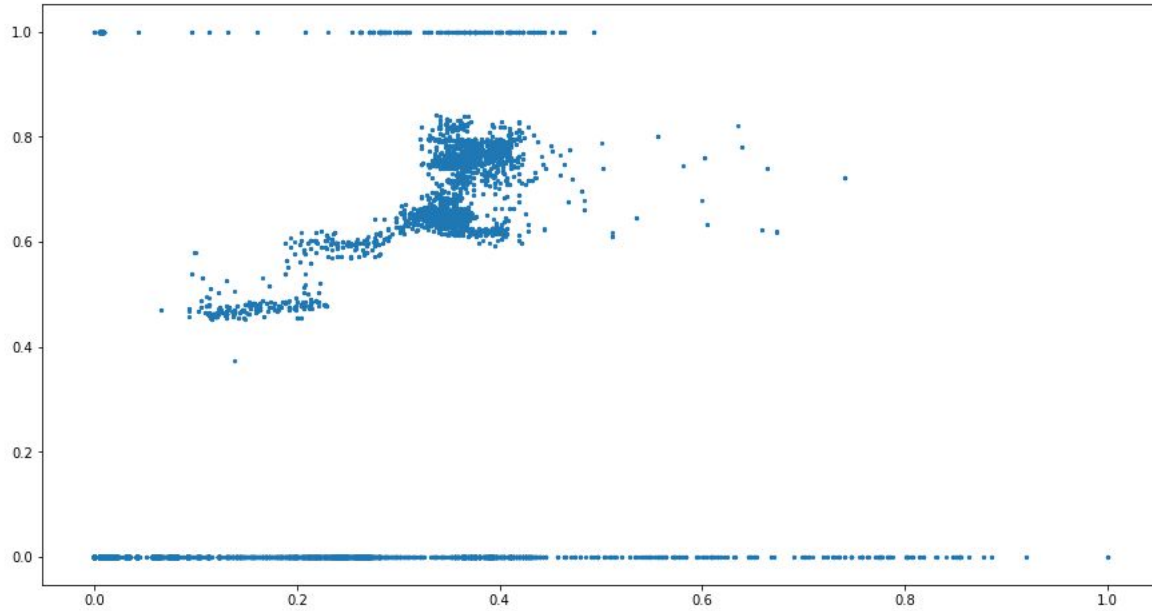


CORRELATION BETWEEN CHANNELS





Machine Learning



Our Predictions

