Citizen Science for Schools : Making Sensor Sense

STEP 1 AQ Sensors around a School

STEP 3

10 Different
Analysis Levels

Primary School

Secondary

University

STEP 2 AQ Measurements in 6 AQI Emojis

Target School with under represented groups in Environmental Science (2nd least diverse Industry)

- Females -> STEM's not for me

  "Almost half of girls (53%) think science/engineering is too hard or complicated"

  "60% of females said they also were put off by a lack of female role models."
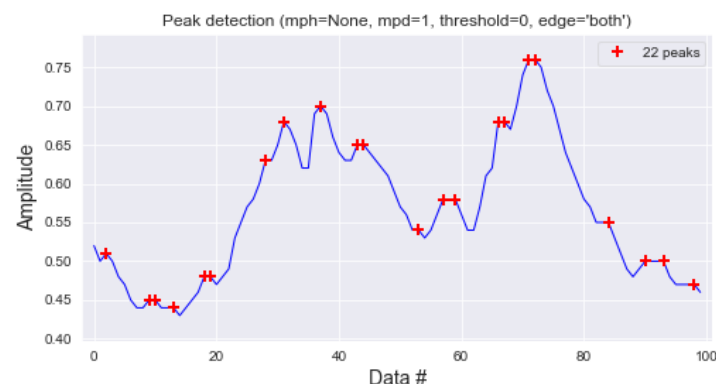
- Ethnic Minorities -> Not represented in Environmental Science

  "DEFRA in 2017 reporting 18% ethnic minorities staff"

- Lower Social economic background -> Only for academic rich pupils

- "29% of students from the least deprived areas have many family science connections, compared to 16% of students from the most deprived areas."
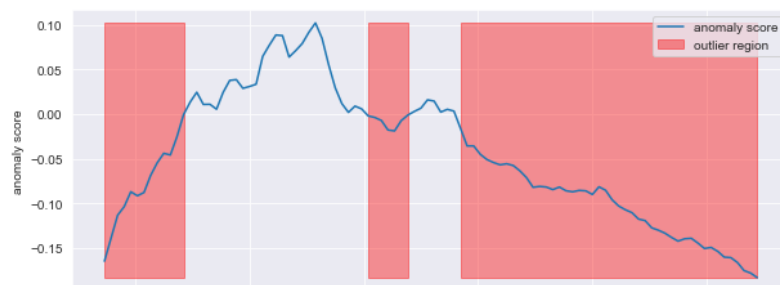
Giving Under represented individual opportunity to do analysis
on their own air quality experiences

STEP 1
Irregular
Patterns

STEP 2
What
caused the
Irregular
Patterns

Camera 214 - A720 Straiton

Typical view facing East

Typical view facing West

STEP 3
Predict
Next days
AQ levels