PROBLEM STATEMENT

Efficient Water Quality Analysis Using Applied Data Science

- Water makes up about 70% of the surface and is one of the most important sources vital to the Sustainable life.
- Water Quality has been conventionally estimated through expensive and time consuming lab and statical analysis.
- With this motivation we explore a series of supervised machine learning algorithm to estimate the water quality.

Big Idea

Biosensor method to detect the bacteria and virus

Ph level of 7 is consider as pure water

Temperature suited with 52-70 degree is healthy

Hardness measured caused by calcium and magnesium

Turbitity measurement using nephelometer

Memberance filteration to remove the impurities

Dissolved Oxygen meter can measure the concentration

Using PPM amount of minerals and gasses dissolved is purifies

Total dissolved solids of 75 to 90 is ideal for drinking

Color of water decayed from organic matter

Quality Analysis by taste

Water level sensor to remove impurities

Idea prioritization