Application of Data Analytics for the betterment of IITK

Data analytics can be used in IITK to detect several water related issues in every hall. We can set up a system which measures the amount of water used by every wing of each hall. We will feed this data in a database. Every washroom in each wing will require a unique characteristic amount of water daily. We will run an algorithm for checking the frequency of the days in which the amount of water used exceeds the usual value. If this frequency exceeds a particular threshold value for contiguous set of days, then that implies either there is either some leakage through a pipe or the taps aren’t closed after being used. We can track such wings and send a plumbing team to investigate. If no leakage is found then a warning can be given to the wing that they must close running taps when not in. This will help us to avoid wastage of water.