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| Experiment number 2  *Give a number to my experiments, for my administration, samity and future reference - and stick to my numbering method.* |
| Date and time: 2023.02.21  Place: Gyor  *Just some administration for my future reference* |
| Main parameters  *How is this experiment different from the previous one? Is it a repeat or benchmark experiment? What is the input of the experiment?*  OPTICS clustering on Newport\_train dataset with max\_age=15 and masking.  OPTICS parameters: min-samples=20, max-eps=0.1, xi=0.25, threshold=0.2  xi changed from 0.15 to 0.25  Results: n-clusters=9, n-feature-vectors=1776 |
| Changes  *Note down any changes I made in the lab with respect to drawings my made when preparing for my experiment, so that I have a record of these changes for my future reference. Note down here if a sensor is malfunctioning and cannot be trusted for the data analysis of this experiment.*  There was no changes in n-clusters and n-feature-vectors, it seems that change in xi by +0.1 does not impacts the clustering that much. |
| Main observations  *What did I observe in my experiments? At what time during the experiment, or for which variable input value? During my experiments, my main observations are related to a discussion of the cracks that develop in concrete for a given load level.*  Change in parameter xi. Did not affect the clustering results from the previous one with xi=0.15. |
| Reflections *Leave som open space to write out my reflections about the experiment. Here is my space for reflectation at the end of my experiment, where I can place my current work in perspective, discuss tiny details or the bigger picture, or write down loose strands of ideas that are forming in my head.*  *What did I observe that is odd and that needs further study?*  The parameters min-samples=20, max-eps=0.1, xi=0.15, threshold=0.2 seems to be the best, because xi=0.25 does not change the clusters. For now these parameters yield the best clusters for Newport\_train dataset. |
| To Do list 1. Run clustering again with +0.2 change in xi. 2. Run clustering again with -0.1 change in xi. 3. 4. 5. *List things that popped into my head that I need to do prior to my next experiment, or to keep my series of experiments movig forward.* |