**Visual Analytics Semester Project Proposal**

Janna Schlageter, Diaa Juneidi, Ahmad Alfahad, Ali Al Rawendoozi, and Sohil Bhavsar

1. <https://www.kaggle.com/datasets/mysarahmadbhat/lung-cancer>
2. <https://www.kaggle.com/datasets/thedevastator/cancer-patients-and-air-pollution-a-new-link>
3. <https://data.world/cancerdatahp/lung-cancer-data>
4. <https://data.world/josh-nbu/lung-cancer/workspace/file?filename=survey+lung+cancer+%281%29.csv>
5. <https://data.world/brianray/gapminder-lung-cancer-deaths-p/workspace/file?filename=Lung+cancer+deaths+per+100+000+men.csv>
6. <https://data.world/brianray/gapminder-lung-cancer-new-case/workspace/file?filename=Lung+cancer+new+cases+per+100+000+men.csv>
7. <https://data.world/brianray/gapminder-lung-cancer-number-o/workspace/file?filename=Lung+cancer+number+of+female+deaths.csv>
8. <https://data.world/datagov-uk/4d69e312-da1f-4a7d-819c-8eff414ae9f7>
9. <https://data.world/datagov-uk/b61093fa-9eb3-4be4-b15f-b61c0c0c4339>
10. PDF-2022:

Lung cancer screening study from a smoking population in Kunming,

(European Review for Medical and Pharmacological Sciences)

[Lung cancer screening study from a smoking population in Kunming (europeanreview.org)](https://www.europeanreview.org/wp/wp-content/uploads/7091-7098.pdf)

1. PDF-2022:

E-cigarette and cigarette use among cancer survivors versus general population: a case-control study in Korea.

1. PDF-2020:

Electronic cigarette risk beliefs and usage after the vaping illness outbreak.

1. Dataset:

Cancer Death Rates in the World 1990-2019, DataSet (total-cancer-deaths-by-type.csv)

[Cancer Death Rates in the World 1990-2019 | Kaggle](https://www.kaggle.com/datasets/bahadirumutiscimen/cancer-death-rates-in-the-world-19902019)

American lung association lung cancer death rates over time by state and sex

<https://www.lung.org/research/trends-in-lung-disease/lung-cancer-trends-brief/data-tables/mortality-rates-by-state-and-sex-2003-2019>

NOTES:

| Dataset | a. What is lung cancer  b. Different types of lung cancer  c. cause for lung cancer  d. # of deaths due to lung cancer  e. Age band  f. Common cause for lung cancer  g. world wide # of lung cancer |
| --- | --- |
| Goal | Visually present above data to target actual cause & most affected region  Something visual to educate people to not smoke or how to prevent this disease. |

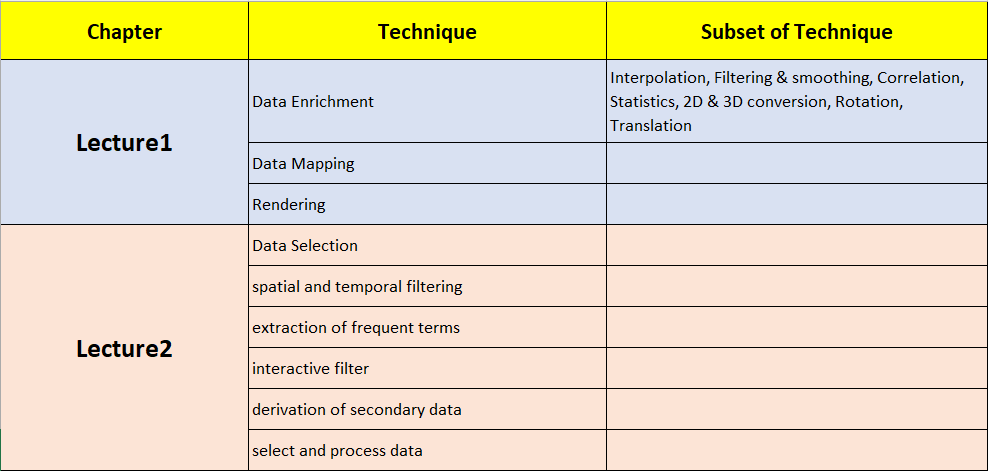
NOTES2:

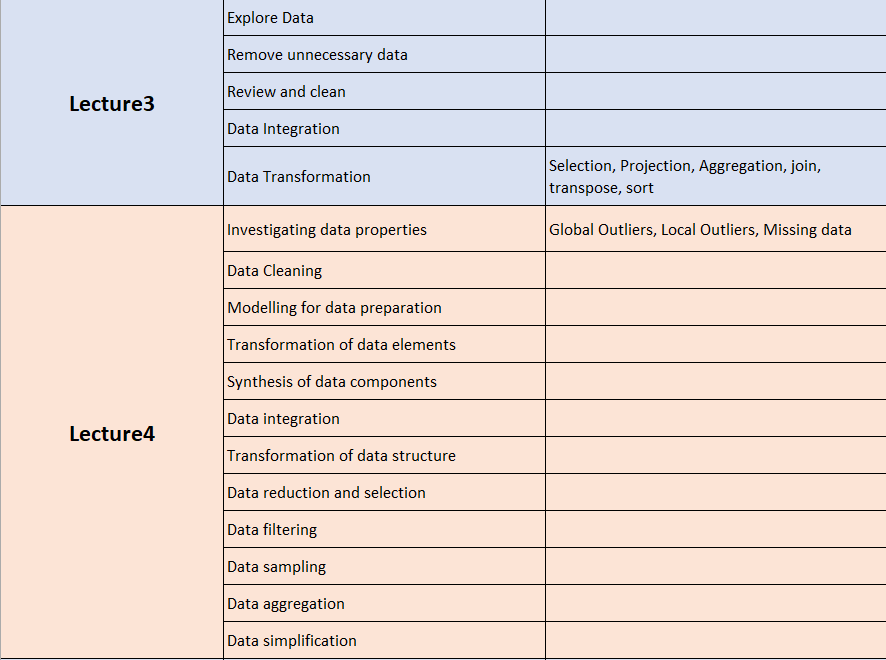
Topic:

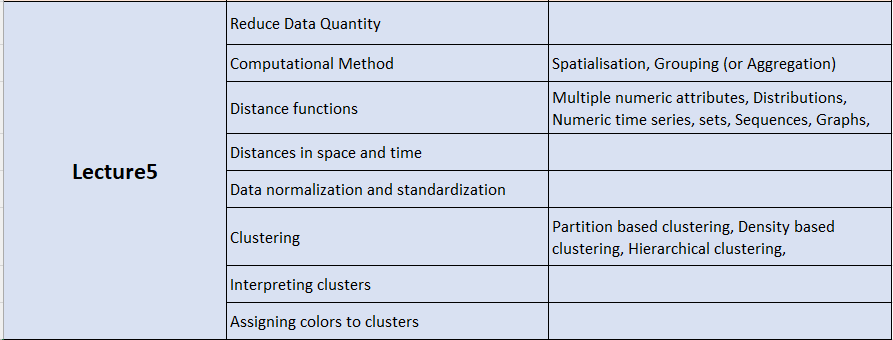
Our chosen topic is lung cancer. We observed vast amounts of data in the medical field specifically related to cancer. This disease in particular has interesting patterns over time with relations to smoking and air quality. We intend to look at recent data to observe connections to increased use of smoking alternatives such as vaping. Therefore, we will be able to create visual tools to assist in the understanding of the connections between the types of people vulnerable to lung cancer and the causes of lung cancer.

| Dataset Descriptions | A. Compare the rate of death between lung cancer and other cancers.  B. Compare impacted ages by lung cancer  C. Average income of people with a higher chance of getting cancer.  D. Check if the cancer increases or decreases over time possible corresponding with smoking alternatives.  E. popularity of smoking vs smoking alternatives over time and by age. |
| --- | --- |
| Goal | Our goal is to use the available datasets to visualize the lung cancer problem and discover the kinds of people more vulnerable to lung cancer. We also hope to find data related to whether smoking alternatives have decreased lung cancer. |

=> **Lecture Techniques:**

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