**List of problem statements :**

1. **Realtime Email classification using NLP and text processing**

- You have to design a program that can collect your top 10 email from your inbox and put a label of either spam or ham.
- Classification of emails you can do with whatever machine learning classification or regression technique you want to use.
- After collecting these 10 emails you have to process this data not before that
- Once classification done for 10 email repeat this process for 20 more emails
- Finally 30 emails you have received use NLP or any approach to perform this task
- Draw a pie chart for spam and ham emails data visualization

**Note:** you can send emails from another email id to your target email id for this practical
You can also decide which keyword you want to count as spam or ham
For example: happy as ham AND purchase as spam and so on.

2. **Real time document summarization for medical report or research paper**

- Take data either from web scraping or from twitter | oyo | wiki | stack overflow
- You can also api calls for twitter or stack overflow
- Collect data of around 200 lines at least
- Apply NLP or any other technique to summarize data
- Once test this project you have to take a medical report or any research paper about any topic and apply code over there and check the report of summary
- Check relevance of the summarized data and calculate the accuracy
- Take 3 different topics from any of the sources listed above and summarize them and also store those summary in MS-Office file along with original data.

**Note:** read the docs problem statement carefully and start working

3. **COVID-19 report and analysis and prevention steps**

- Take dataset from kaggle or from any other sources
- Apply data visualization to view the multiple factors
- Generate a report and visualized it where you can point the country and their cases
- You have to graph all the reasons and then write things in MS-XLS file along with the format of | country | cases | cure | dead | growth rate
- Create a web application using python cgi | flask | django that can take input from users and on behalf of dataset and previous country experience it can show the graph of country INDIA current and future status.
- After processing the data it must be converted into a tweet

**Note :**

1. web application will be very simple and that will be connected to a pre-trained model of provided datasets.
2. It will take input from users as html forms : like no of lock down days , country population , no of hospital , tourists places  probability , and many more components as per your understanding.
3. Once you enter all this info it will predict the future of CORONA in India or increasing or decreasing graphs in INDIA.
4. Once it will process the graph it must automatically tweet this result twitter

**4. Real time Recommendation engine for COVID-19  cure**

1. Design the web application that can use your GPS or any other component based location like : IP address or city name or  state name
2. After taking  that input you have to scrape data from any source or you can take it as tweets .
3. Data collection must be real time no fake data is available
4. Apply NLP or any other technique that can give you list of most infected areas or city name or location depending on INPUT
5. List the name of available options like shops , medical store and hospitals , food shops nearby
6. Make sure that list will be on behalf of Google or any other rating

**Important :**

1. The whole idea is to create a web application that can accept input from users like IP address , city name , country name , state name  etc.
2. Then it can take or scrape data from various sources
3. Scraped data will contain hospitals , food shops , medical shops ,petrol pumps etc.
4. The available resources must be according to reviews on google , zomato , swiggy , practo or any authentic website.
5. Then it must be listed as per recommendation from your web app intelligence .