DATATHON

The Problem Statements for Datathon are as follows:

1. A brain tumor is a collection, or mass, of abnormal cells in your brain. Your skull, which encloses your brain, is very rigid. Any growth inside such a restricted space can cause problems. Brain tumors can be cancerous (malignant) or noncancerous (benign). When benign or malignant tumors grow, they can cause the pressure inside your skull to increase. This can cause brain damage, and it can be life-threatening. Develop a model to identify early stages of brain tumor.

Dataset: <https://tinyurl.com/2p9mybj3>

1. The Low pressure area has formed over the Bay of Bengal which is away over the Andaman Sea and very close to the equatorial region of the state of Malacca. The system is quite organized and is well supported by cloud clusters of that area. Develop a model to predict the next year’s June-September accumulated rainfall and it should be able to classify between low, moderate and heavy rainfall.

Dataset: <https://tinyurl.com/2c47nym3>.

1. Isn’t it always a hassle when you order a delicious meal but don’t know how to make it? Create a model which will allow the user to upload the picture of your meal and it’ll identify the dish and provide with the ingredients used in it.

Dataset: <https://tinyurl.com/yk95k7xk>

1. Suicide is a major issue with multiple countries, figuring out the rise for the rise in suicide rates is a puzzler. A study was conducted on suicide rates based on sex, race, hispanic origin and age. Your task would be to figure out which group of people have the highest suicide rate. The group could overlap categories i.e sex, race etc.

Dataset: <https://tinyurl.com/bdccs4zm>

1. There are currently over 5,000 languages spoken in the world. The language barrier acts as a big challenge to forming international relations. Create a model using the current dataset, to identify which language a sentence is being spoken in.

Dataset : <https://tinyurl.com/yc699mek>

1. Kidney stones are painful, hard deposits formed in a kidney due to reasons such as excess salts in urine. Apart from this, other kidney ailments include cysts, tumors etc.

Create a model to identify the problem in a kidney and classify it as severe or not.

Dataset : <https://tinyurl.com/3kx3k4rw>

1. Scientists predict over 44,0000 tonnes of meteoritic mass falls on the earth daily. As the earth is being bombarded with astronomical debris, here is a dataset containing Information on the geographic location as well as structure of the meteorite. Conduct An analysis on the data, visualize it and predict areas with the highest showers.

Dataset : <https://tinyurl.com/yc553x2z>

1. Air quality is deteriorating in many cities across the world. Rising pollution levels, industrial emissions and other factors contribute to this effect. Given an air quality surveillance dataset, analyze, visualize and create a model to Analyse air quality in the location.

Dataset : <https://tinyurl.com/mpzerhf2>