**SUICIDE ANALYSIS AND PREDICTION**

**Introduction**

The increasing suicides around the world has become an important concern about studying deep about it and try to understand the reasons behind it.

**Background Problem**

As we it’s been always so heartbreaking listening to each time, we listen to a news about committing suicide.

**Technologies and methods**

ARIMA Model and FBProphet models used for predicting suicide deaths around the world.(Kumar and Susan 2020). Covid-19 was a very sensitive topic in recent year. Many people have affected by it and lost their life. The dataset is very similar to what I have chosen for my suicide prediction as well. In my view This is an excellent model to take inspiration from. The paper talks about countries including India and to understand the patten in deaths happened around the world. Time series is definitely helped to make predictions about coming years. ARIMA and FBProphet models are used and for analysis data has been split into training and testing.



Another study was done on predicting birth (Włodarczyk et al. 2021), study was trying to figure out the preterm births. This study used machine learning algorithms like support vector machine(svm), random forest, K-Nearest Neighbor, and Convolutional Neural Network (CNNs).

Another study I can point out was done on predicting mortality of predicting attributable to cancer in Qingdao, China: (Qi et al. 2021). They have also used ARIMA Model for prediction of deaths. ARIMA model is combination of autoregressive model and moving average model.

Another study was done on prediction o exchange rate (Airiti . 2012). Artificial Nueral Network and ARIMA are used to predict the model.

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**References**

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