

Project Name: IAPS- Investigation Analysis to Predict Suicide

Team Information: Mehak Beri (mxb166430), Manish Biyani (mxb172930)

Data Set:

LINK: <https://www.kaggle.com/rajanand/suicides-in-india/data>

Suicides in India: Suicides in each state is classified according to various parameters from 2001-12

Project Idea:

The idea is to create a mobile application designed to keep the police officials and the investigating team of a death scenario as audience. The application shall ask a series of questions to the officers and help them determine the probability of the cause of death being suicide in suspicious cases based on a model trained on data fed into the application backend. The model is created by considering factors which might push a person to the brink of suicide. When a police officer enters data of current scene of investigation into the application, he/she will get to know the prediction made by the application.

We intend to create this application as an effort to reduce time and money expenditure on determining the true cause of death in suspicious death scenarios, on the part of the family of the victim as well as the judiciary system. We intend to train the model, and make predictions using real time data fed into the application.

Software Used:

- Python
- Numpy
- SciKit

Papers:

- <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC5632514/>
- <http://journals.sagepub.com/doi/abs/10.1177/2167702617691560>
- [http://www.biologicalpsychiatryjournal.com/article/S0006-3223\(17\)30741-2/pdf](http://www.biologicalpsychiatryjournal.com/article/S0006-3223(17)30741-2/pdf)