



# Stop Human Trafficking using Data Science

Created By:  
Rachna Shriwas



# Human Trafficking in India

- ▶ Every 8 minutes a child goes missing.
- ▶ 40,000 children go missing and 11,000 are never found.
- ▶ 10 percent of the human trafficking in India is international and the other 90 percent happens within India.
- ▶ India is the hub of human trafficking and a point of transit, destination and source of human trafficking victims.
- ▶ A vast majority of the victims in Asia are females, either adults or underage girls.
- ▶ The trafficking of males accounts for about 17 percent of the total number of victims, slightly lower than the global average



## Some common measures to stop Human Trafficking

- Awareness using education
- Strict laws and punishments for the culprit
- NGOs like 'Save the Children' to fight against trafficking



# How to use Data Science to stop Human Trafficking

- ▶ Search insights in data
- ▶ Human Trafficking is a supply chain model
  - ▶ Supply (human victims) move through a network to meet demand (cheap, vulnerable and illegal labor)
- ▶ In this model, traffickers will leave a trail and that data can prove to be helpful



# The Idea

The keys steps involved are –

- ▶ Finding Vulnerable people

Poverty, unemployment and migration are the key factor which make people vulnerable to trafficking. Data about employment and poverty can help identify regions where people are at higher risk.

- ▶ Identifying the victim

Machine learning can be used to detect online trafficking activity. In trafficking advertisements, image recognition can be used to compare images with missing people. Transactions made for hotel booking etc. can be analyzed.

Social networking profiles can be analyzed to find the traffickers.



# Conclusion

- ▶ Machine learning can prove to be really helpful in finding the trafficking cycle. This way we can prevent this crime from happening.
- ▶ Further, we need rescue operations for victims from highly exploitable regions
- ▶ We need NGO's who can provide safe accommodation and trauma counselling services and medical assistance to the victims
- ▶ And we need to educate more and more people as we can.



Thank You