# **Python/DL Project Proposal**

**Team 10**:

1. Sai Rohith Guntupally (8)
2. Chaitanya Mallepudi (14)
3. Madhu Varma Rudraraju (20)

**Project title**:

**Analyzing and Visualizing the US Accidents Dataset** (A country wide traffic accident dataset)

**Goals and Objectives:**

Since road accidents is one of the major concerns in the United States, we would like to analyze and discover what are the causes for accidents such as the impact of precipitation or other environmental factors.

The main objective is to utilize the visualization to predict the car accidents zones, locations and hotspots, factors effecting the accident severity.

**Dataset Description:**

This is a countrywide car accident dataset, which covers **49 states of the United States**. The accident data are collected from **February 2016 to December 2019**, using several data providers, including two APIs that provide streaming traffic incident data.

These APIs broadcast traffic data captured by a variety of entities, such as the US and state departments of transportation, law enforcement agencies, traffic cameras, and traffic sensors within the road-networks. Currently, there are about **3.0 million** accident records in this dataset.

**Languages and Libraries:**

* Python
* Matplotib
* Ski-kit learn
* Numpy
* Pandas.

**Software and platforms:**

* Jupyter Notebooks
* Google colab.

**References**:

<https://www.kaggle.com/sobhanmoosavi/us-accidents>