**SAMUEL ABOAGYE (DATS 6401-POJECT PROPOSAL)**

**EXAMINING DRUG OVERDOSE DEATHS IN THE US FROM 1996 TO 2015**

**INTRODUCTION**

Opioid abuse with the resulting deaths is a national health crisis in the United States. The data points to an upward trend in the number of drug overdoses and deaths. These deaths accounted for over 70000 deaths last year. There is therefore a need to examine possible factors that are contributing to this rise and to help inform policy makers and stake holder when policy and solutions are being developed to tackle this crisis.

**OBJECTIVES**

. This project will analyze and visualize data from the CDC in relation to drug deaths from 1999 to 2016.

. I will be analyzing yearly reported deaths and will seek to find correlation with several factors such as employment, labor force participation, GDP Per-capita, population, among others

. I am also interested in finding out year over year what the trend looks like in terms of drug deaths.

. The States with the highest and lowest drug deaths will be examined

. I will like to also examine which demographic groups are mostly impacted by drug deaths; i.e. income, race and gender

. I will use available data and analysis for forecasting

**PROPOSED SYSTEM**

. Tableau. Plotly. D3. Leaflet. Google API. Excel

**PROPOSED DEVELOPMENT PLATFORM**

Excel will be used to clean and restructure the data for analysis and Visualization. Tableau will be used to create dashboards and storylines whiles leaflet.js will be used for mapping the states. Plotly and D3.js would be used to dynamically display the various demographic data.