**­STATISTICAL GROWTH ANALYSIS**

This project will be submitted as partial requirement for the course CS-218 in Fall 2020.

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**Goal:**

This project will be able to perform statistical and mathematical calculations on moderately large data sets of companies and organizations to determine growth, output, linear budget, and derive possible conclusions from it.

**Description:**

This application will assist to make conclusions about which company/organization is doing better in a particular department by comparing different data sets. It will derive mathematical results like mean, median, variance, standard deviation, outliers from given data sets to show the growth/output. Our proposed system will make use of deep learning models to compare and contrast data by first implementing data structures like linked lists, stacks, queues, and trees and use these to perform calculations based on deep learning.

**List of Features:**

1. Mean
2. Variance
3. Standard Deviation
4. Outliers
5. Comparison to predict successive years growth/budget
6. Compare growths of different companies

**Tools & Techniques:**

The project will be deployed as a console based application in C++. Visual Studio Code will be used as the IDE to work on the code.

**Schedule:**

To be submitted one week before the final exam of the Fall 2020 semester

* Accept
* Reject

**Course Teacher:** Dr Ghufran Ahmed **Signature:** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_