## **Foundations of Data Science Assignment 2: 1st Deliverable**

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## **Implementation Details:**

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| **Type** | **Algorithm** | **Application** | **Dataset** |
| Regression | Vector AutoRegression (VAR) | Forecasting of atmosphere gas concentrations in a city | [**http://archive.ics.uci.edu/ml/datasets/Air+Quality**](http://archive.ics.uci.edu/ml/datasets/Air+Quality) |
| Classification | Discrete Fourier Transform (DFT) + k-NN | Detection of the reason of failure of a robot part based on force and torque measurements | [**http://archive.ics.uci.edu/ml/datasets/Robot+Execution+Failures**](http://archive.ics.uci.edu/ml/datasets/Robot+Execution+Failures) |
| Clustering | Dynamic Time Warping (DTW) + Hierarchical Clustering | Group products on the basis of weekly quantities of the product sold. | [**http://archive.ics.uci.edu/ml/datasets/Sales\_Transactions\_Dataset\_Weekly**](http://archive.ics.uci.edu/ml/datasets/Sales_Transactions_Dataset_Weekly) |

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## **Work Division**

**Tasks** **Members**

* Regression:
  + Research Lakshmi Teja
  + Implementation Lakshmi Teja
* Classification:
  + Research Abhishek Gupta Implementation Lakshmi Teja
* Clustering:
  + Research Abhishek Gupta
  + Implementation Abhishek Gupta
* Report: Abhishek Gupta and Lakshmi Teja