How To

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1 Introduction

Our project code can be found on Git Hub over here:

https://github.com/kapilthakkar72/mtp

Each folder has ReadMe file in it stating the files present in it.

- To refer our work, see our Thesis here:
  - Thesis_of_both_members/Kapil_Thakkar_2014MCS2124.pdf
  - Thesis_of_both_members/Reshma_Kumari_2014MCS2134.pdf
- To refer code/library refer folder:
  - library/
- To see detailed documentation of library functions refer document:
  - library_documentation/Anomaly Detection.pdf
- To refer data used by us, refer folder:
  - database_backup/
- To see our results refer folder:
  - analysis/

  Documentation can be found here:
  - analysis/resultDoc/results.pdf
- Work done to collect news articles, fetching links from html search pages, fetching text and related data using AlchemyAPI and Diffbot can be found here:
  - newsArticleWork/
- For graph based anomaly, R packages are present in folder:
  - mtp/library/R_Packages/

- Matlab Script for mapping mandis to center using voronoi diagram can be found here:
  - mtp/matlabScript/clustering.m
- Crawlers written to fetch onion data are present here:
  - Wholesale Price and Arrival: mtp/oniondataCollection/WholeSalePriceCrawler
  - Retail Price: mtp/oniondataCollection/RetailPriceCrawer
  - Location of Mandis and Centers: mtp/oniondataCollection/LocationScript
  - Required JAR files: mtp/oniondataCollection/jarFiles
- Final Presentation is present here:
  - thesisPresentation/Thesis - Time series analysis.pptx

To see the detailed information refer ReadMe file in each folder.

2 Other Details

- Library scripts are written in Python and R. So it is necessary that both are installed on system.
- Packages required to run code can easily be downloaded from repos of corresponding language. Additional R packages required are stated in library folder (Refer ReadMe of library folder).
- Required jar files to run crawlers and location script are also provided.
- Documentation of Code executed by us to do analysis and detailed analysis of functions used is present in library_documentation/Anomaly Detection.pdf
- Details about code and data can be found in the ReadMe file in the corresponding folder.