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RepoMining – Repository and Mining of Temporal Data Faculty Advisor/s: Dr. Philip Chan, Dept of Computer Science, Florida Institute of Technology

Objective

Create a web application that and simplifies allows visualization and analysis of data answering the following bV questions:

- \checkmark Q1: Is there a significant change on my data?
- Q2: What are the top-k variables affecting it?
- \checkmark Q3: What is the next possible value?

Motivation

To simplify the appearance of mining, collection, and data analysis as well as to be able to predict future trends based on different types of information.

Tools

- Django Web Application Framework
- Python Programming
- Language Front-end timestamp.
- ► JSON Handling data objects HTML/Bootstrap/CSS/JS -





NORTHROP GRUMMAN

2018 2013 2015 2017 NarrowData: Compares the timestamps of all data in storage and returns the ones whose starting timestamp falls before the target's and whose end timestamp falls after the target's. Uses lag of n-times to determine if past data affected present data. Calculates the correlation value of the matching data and returns the top-k variables affecting the target. • Linear Regression: Used along with top-k values from to predict the target's future





