Repository and Mining of Temporal Data

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Purpose

- Program designed to help users understand more about their data
  - Is there a significant change?
  - What are the top-k variables, and how do they correlate with the target variable?
  - What is the value in the next timestamp?
- Prediction + analysis software

Progress of Current Milestone

Task	Jessica	Siomara
Website	50%	50%
Target Variable Search	60%	40%
Save Results in account (provider/user)	50%	50%
Optimization	70%	30%
Test/Demo System	40%	40%
User Manual/Demo Video	50%	50%
Evaluation Document, Presentation	50%	50%

Discussion of Each Accomplished Task

- Website
- Target Variable Search
- Save Results in account
- Optimization
- Test/Demo System
- User Manual/Demo Video
- Evaluation Document, Presentation

Demo Website

https://youtu.be/xJd_HQrUsiA

Future Improvements

- Fix Django so that Q2. Fig. 3 shows
- Change from using matplotlib to another visualization software
  - Matplotlib is slow and has issues with mpl3
- Optimization
  - Refinement of analysis process
  - Better framework for reading csvs
- User Accounts
- Further color coordination

Lessons Learned

- Get the important stuff done first
  - Code, Framework, Q2...
- Group size
  - 2 people is a good size for this scope of a project
- Put more research into APIs before actually using them
  - Case in point: Numpy, matplotlib, and mpl3
- Backups for your backups