

Project Participants:

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Title:

Devusoid

Executive Summary:

The program identifies price differential recommendations for users based on their input and the respective companies SEC financial information.

My project is a program that takes the user input of their personal Demand (or likelihood of purchase) for products of a specific company- in this case , 6 companies from the Solar PV Industry. The companies financials (gathered from the EDGAR Database) are then evaluated to process 2 scores. The first score, called Revo, delineates Present Value, and the second score, called Depro, delineates Future Value. The scores are evaluated with respect to the Demand distribution of the user input- who are then categorized as either favoring Revo, Depro, or Neutral (no correlation). From this information the program can then identify 3 users that all share the same Demand score for a specific company but who also differ from one another by the 3 different entities.

The Revo user will be expected to pay for less, Depro more, and Neutral will have no change in price. The amount of price differential is proportional to the Demand score all three individuals share for that specific company. In this case it is the Demand score divided by 100 as a percentage. The program will also log the instances (in the mySQL Database named Giza) where the user makes repeated inputs of Demand scores but which lead to different categorizations and subsequent change of asking price. A user going from Revo to Depro or vice versa is termed- Devusoid- and is logged as an event useful for business analysts outside the scope of this program.

Initial Features:

Create a bulleted list of planned features you plan to have completed in your project by the deadline. This should include a list of API endpoints for each feature. If you are working in a group, please note which team member will be assigned to each feature.

list of Features/Endpoints for Devusoid API:

- Entities: Users, Firms, Depro/Revo/Neutral Categories, Devusoid Events
- A User can perform the following operations:
 - Login, and use system
 - Browse all Price Differential Events (GET on Categories)
 - Add a Demand Distribution (POST in User Interest)
 - Update Changes in Demand Distribution (PUT in User Type)
 - Browse Devusoid Events (GET on Devusoid)
 - Remove User Demand Posts (DELETE in User Interest)

Stretch Goals (to be completed if time allows, or after graduation):

Create a bulleted list of planned features you plan to have once you have completed your initial features. These should be features that may require more research in how to implement or features that would take longer than the allotted time frame.

- Identify what companies are of concern when users make Devusoidal shifts.
- Demand scores need to be evaluated based on Data retrieved from existing sources as well as forecasting models.
- Price Differential can only be realized when the firms (or commerce platforms) are willing to affect prices. Which may be affected by shipment queues from a separate database(s).
- Company data entities need to be parsed through from the EDGAR Database in order to increase the data pool for further analysis, tests, and implementation.
- Basically I need to learn more about Data.