

Georgia Channing, Harry Channing, Shannon Hall, and Owen Queen

### Intro

- Attempting to design a robust and easily understandable system that guides users through the data-leverage and model generation process
- Main market will be small-medium businesses through the web
- Eventually will go from basic preprocessing steps to model construction and output
- Coding ability is generally a barrier to entry in the space. We hope to remove that

## Customer Value

- Many small-medium business can't afford to people that are solely responsible for the analysis of data -- Businesses lacking such technically-savvy people are at a competitive disadvantage relative to the ones that do
- Our project will help small businesses with even the least technically knowledgeable staff to generate business insights with the data they have collected
- We will provide a robust system that walks clearly (and in a non-technical fashion) walks users through the processing and development of their data
- We will remove the terror and confusion that can come along with attempting to learn a new computer language

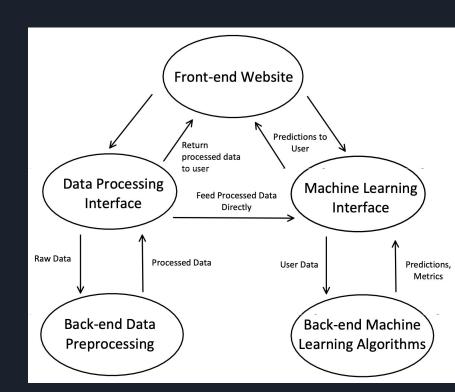
# Technology

#### Backend:

- Python:
  - SciKit-Learn
  - TensorFlow
  - PyTorch
  - NumPy/Pandas

#### Frontend:

Django



## Team Schedule

- Iteration 1:
  - At least 1 preprocessing framework
  - o Basic User Interaction
- Iteration 2:
  - Further implementation of processing techniques
  - o Development of classification framework at least one
    - Improvement of GUI
- Iteration 3:
  - Cleaner/clearer GUI
  - Additional Techniques Added
- Final Iteration:
  - General improvements and bug fixes
  - Finished project

| Week              | Goals   |
|-------------------|---|
| 2/7/21 - 2/13/21  | - Create rough project proposal   |
| 2/14/21 - 2/20/21 | - Finish up project proposal  |
| 2/21/21 - 2/27/21 | Establish web framework for development     Basic implementation of processing technique                                    |
| 2/28/21 - 3/6/21  | 3/04: Submit Iteration 1 Status Report     Implement at least one processing technique     Establish basic user interaction |
| 3/7/21 - 3/13/21  | Further implementation of processing techniques     Developing machine learning framework                                   |
| 3/14/21 - 3/20/21 | 3/18: Submit Iteration 2 Status Report     Implement at least one classification algorithm                                  |
| 3/21/21 - 3/27/21 | Clean up and improve processing technique     Add processing techniques     Add machine learning tools                      |
| 3/28/21 - 4/3/21  | <ul> <li>4/01: Submit Iteration 3 Status Report</li> <li>Clean up design, improve GUI</li> </ul>                            |
| 4/4/21 - 4/10/21  | Work towards final report,     presentation     Test processing techniques     Improve and test GUI                         |
| 4/11/21 - 4/17/21 | - 4/15: Present Final Project<br>- 4/15: Finish Final Report  |