

Sprint Report 2

rallyAI, 11/3/2019 - Release 1 - Revision 1 - Revision Date: 11/2/2019

Actions to stop doing

- **Optimistic Deadlines:** At the start of the last two sprints we were optimistic about our progress. We've been able to successfully overcome our technical hurdles but have not been able to work as much as we'd like due to exams. We should have better forecasted this expected drop in productivity. Consequently, we're a sprint behind in many of our stories.
- **Unclear Pull Request Review Guidelines:** Our team follows a workflow of when a task is ready for review we make a pull request and assign the scrum master to review it. The PR creator writes a brief guide with the steps necessary for the reviewer to follow to gain the desired behavior. This manual review process is necessary for pull requests where the desired functionality can't be effectively unit tested. Examples include the ETL pipeline and Kubernetes deployment files. We've run into the issues where reviewers aren't always clear on how to exactly configure their development environment. We need to stop having ambiguous PR review guides and include sample environment variables.

Actions to start doing

- Train the model on the data.
- Re-evaluate definition of our "must have" deliverable
- Resume regular meetings
- Technical demos demonstrating our progress

Actions to keep doing

- Effective Team Meetings:
- Wrap up the web-scraper by using exceptions and conditions provided with Selenium to get past consistency issues that have come up during automated web-page interactions due to faulty dom structure.
- Have the scraper completely functional no later than end of first week of Sprint 3.

Work completed/not completed

- **Completed**
 - User Story 17: As a developer, I want to develop the machine learning model so I can use the data collected to predict stock prices.
 - User Story 3: As a developer, I want to research GraphQL's schema so I can begin building the API.
 - Task 3 : Write web scraper for S&P 500 URLs
- **Incomplete**

- User Story 18: As a developer, I want to start providing basic functionality to our API so the user can interact with it.
- User Story 1: As a developer, I want to build my data set with scrapers so I can collect data.
 - Task 7 : Write web scraper to retrieve stock data and store as CSV

Work completion rate

The total number of user stories completed in this sprint is 5. The total number of estimated ideal work hours completed during this sprint was approximately 56 hours. There were 14 days during the sprint. Therefore, our team was completing user stories at a rate of 0.36 user stories a day with 4 ideal work hours a day.