

# Project Talk

Galvanize DSI Cohort 19/20

# Overview

- **The Project**

- 3 components of an awesome project
- Why projects matter?
- How to use project to get job?

- **Timeline**

- **Elements**

- Preliminary Proposal → Final Project Proposal
- Projects
  - Crabs, Dogs, and Reviews
  - Discuss these projects
- Presentations

# 3 Components to Awesome Project

- **Machine learning Application**

- Interesting and challenging, show your chops!

- **Utility**

- Business Value, Consumer Value

- **UX/UI**

- Want easy to use and pretty
  - Consumer standards
  - Great github repo
    - With good code!!!



# Capstone Project NO's

1. Popularity Prediction
  - a. Non-linear - small change in actual quality results in huge changes in response at best.
2. Finance
  - a. Are you rich yet?
3. Supply and Demand Curves
  - a. Get suppliers and buyers to report their reservation prices under counterfactual scenarios
  - b. Be an auction
4. Predict when there is no relationship
  - a. Unless they're bad (overfitting)
5. Make predictions with no data
  - a. Maybe try a plain old "scientist"
  - b. Must solicit user inputs!
6. Set arbitrary parameters
  - a. weights between dimensions



# Why do projects matter?

- **Hitting all 3 hits wow factor**
  - Proof is in the pudding
  - This is a data science project
- **Prove you can do the work**
  - Companies need to know you are a data scientist
- **Expand your skills**
  - Chance to focus on the things you find most interesting
  - Go beyond the scope of the DSI curriculum

# How to use project to get the job?

- **How to show off?**

- (1) App/Website/github repo (2) slideshare deck (3) blog
- Front-load in conversations
- Put it in resumes, make it #1 thing you sell in cover letters

- **Using a project to get the Interview**

- Ziplee – Jonathan Lee got job at Uber
  - [https://github.com/liljonnystyle/sf\\_traffic](https://github.com/liljonnystyle/sf_traffic)
- Tinderella – Virginia Yung got job at Mapbox

- **General Appeal**

- Going to apply to 50-100 companies for first round.

# Timeline

Thursday, ( 1/5): 3 Project Proposals (Preliminary)

staff review projects → projects finalized → scrums formed

Thursday, (1/12): Final Proposal due

Monday , (1/16): Conditional Project Proposals Due

Friday, (1/20): First Scrum on last day of structured curriculum

 ...Project time... 

Monday, (2/6): Practice Presentations (Scrum)

Wednesday, (2/7): Presentations Dry Run (Real Deal)

Thursday, (2/8): Final Presentations to Panel( REALLY REAL DEAL)

# Preliminary Proposal

Purpose: Organize initial ideas and allow us to provide feedback!

Format: Markdown, via <https://github.com/zipfian/project-proposals>

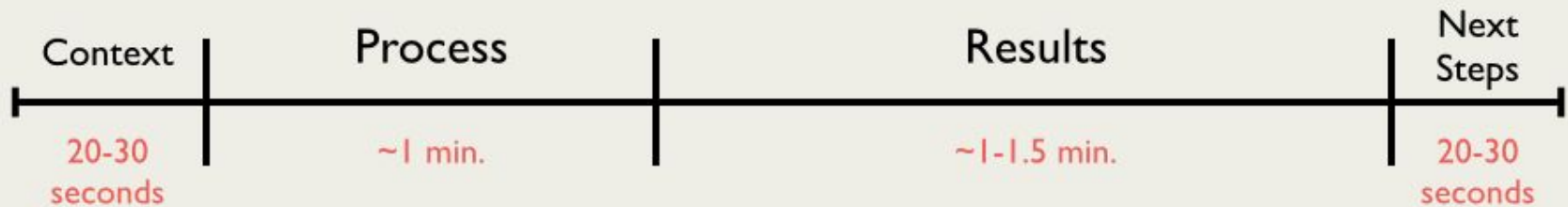
Include the following:

- 1) Name
- 2) High level description of project
  - What question or problem are you trying to solve?
- 3) How are you presenting work?
  - Web app, visualization, presentation/slides
- 4) What's your next step?
- 5) What are your data sources?

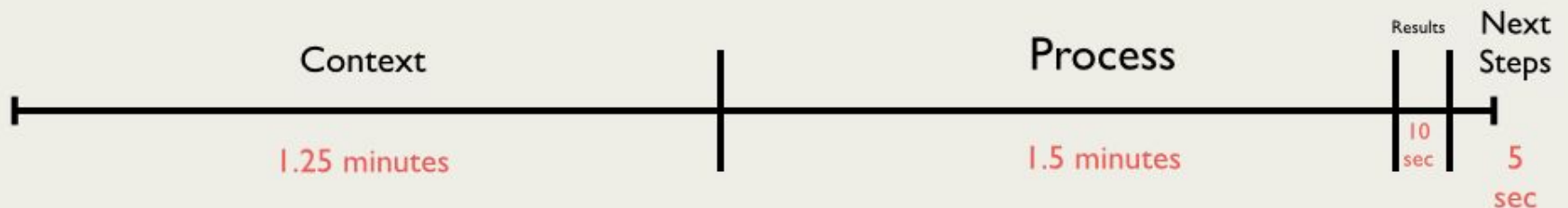




## What you Want



## How it usually Happens



# Projects

Project breakdown! Break into pairs and analyze the following projects for the following components:

- (1) Interesting Machine Learning Application
- (2) Utility – Business / Consumer Value
- (3) UX/UI

Predicting Crab Catches:

<https://github.com/JeffOnABike/crab-project>

Rescue Dogs:

<https://github.com/tracyclee/rescuedogs>

Amazon Review Summarizer:

[https://github.com/alvinthai/amazon\\_review\\_summarizer](https://github.com/alvinthai/amazon_review_summarizer)