PROJECT OVERVIEW:  **De-Mystifying ML** Project

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2/5/2019

## Topic for review – Disney Wait Times on rides and other Disney events

* Sample of Data Sets being used
  + <https://touringplans.com/walt-disney-world/crowd-calendar#DataSets>
  + <https://touringplans.com/walt-disney-world/historical-crowds>
  + <https://disneyworld.disney.go.com/resorts/map/>
  + https://disneyworld.disney.go.com/en\_GB/faq/bands-cards/understanding-magic-band/
* Observation on Disney Properties: Such as Magic Kingdom and Epcot
* Analytics considering:
  + Use of Disney Crowd Calendar, Magic Band, etc. Does it help you avoid the lines?
  + Distance between rides, events and food. Do these items help maximize your time in visiting more items during a day?
  + Time of year. Are the lines shorter/longer during a certain time of year?
* Expected Outcome – There is a way to minimize the impact of waiting in lines while visiting the park even during peak times.

## Project Scope

* For the team to find manageable files to use ML in the context of technologies learned
* Very quick project with less than two weeks to review and work with team.
* Prepare a 15 minute “data deep dive” or “infrastructure walkthrough” that shows machine learning.

## Approach

* Team decided on a problem worth solving, analyzing and visualizing.
* Researched the availability of data.
* Analyzed possible information that can be used as review, aggravation, etc.
* Performed various analysis on the data to analysis and visualization.

## Finding Data

* Resources used to find the appropriate data considered and included
  + APIs
  + Data scraping
  + Large Data Sets from:
    - Disney
    - Parks and Recreation sites
    - Travel sites

## Details of Analytics to include

* File Names
* Summary of type of Data
* Source of Data and parameters used
* File format (fixed length, comma separated, etc.)
* Types of data manipulation used for analysis
  + Python: Pandas, Matplotlib, Tweepy and Flask
  + HTML/CSS/Bootstrap
  + JavaScript Plotly and D3.js
  + JavaScript Leaflet
  + MySQL Database
  + MongoDB Database
  + Google Cloud SQL
  + Amazon AWS
  + Tableau