Group 18 – Milestone 1

Group Name/ID: Group 18

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# -- Project Layout --

Problem Statement:

Pokémon statistics and analysis based on type, generations, and other miscellaneous stats.

Background:

Every gym in the world wants to be the best, but do some have more of an advantage than others? The purpose of this project is to analyze a comprehensive list of all Pokémon known to exist in the world and answer this question. We will look in depth at the attack, defense, speed, and other attributes of all types of Pokémon to decide if one reigns supreme.

Data Source & Preprocessing Needs:

* Our data was found on kaggle.com at the following link:
  + <https://www.kaggle.com/terminus7/pokemon-challenge>
* We will use two of the files: combats.csv and pokemon.csv

## Skills Needed for Data Analysis:

1. Data extraction/cleaning/transformation/merging
2. Descriptive/summary statistics using plots such as histogram, boxplot, line graph, etc.
3. Correlation analysis
4. Statistical testing

Goal of Data Analysis:

* prepare our data & create an initial summary report for each type/generation of Pokémon (skills 1 & 2)
* probe for correlations between type/generation and significantly valuable attributes in battle like attack stats, defense stats, speed etc. (skill 3)
* analyze type strength, and weaknesses (skill 3)
* analyze battle results to gain some experimental information and compare the results of this analysis to the theoretical information (skill 4)
* conclude and present results in the report

