SPORTVU LAB

Tracking data has flooded the sports industry with new stats and untold possibility. In this lab you will analyze NBA tracking data to detect shots that are taken throughout a single game.

Requirements:

Again, actionability is already baked into the concept of this lab. Your focus will be on using the provided data effectively, and clearly conveying your strategy. You will be submitting your shot identifying program and a write-up (approximately 1 page) that explains the strategy that your program employs.

Provided Data:
0021500495.json – SportVU tracking data from Brooklyn at Boston 1/2/2016
0021500495.csv – Event log data from that same game

Write-Up:
Your write-up will comprise half of your grade on this assignment. It will be evaluated for clarity and presentation, as well as the overall soundness of your strategy. There are many reasonable paths to take in this assignment. Your goal is to convey yours clearly, pointing out relevant assumptions and limitations along the way.

Program:
Your shot identifying program will comprise the other half of your grade. The provided starter code supplies you with two arrays that you need to populate. The first, **`shot_times`**, must contain the time of each shot that you identify, expressed in seconds since the beginning of the game. The second array, **`shot_facts`**, expresses some numerical attribute of your choosing for each shot. Distance from basket or nearest defender are both suitable choices. This attribute must be scaled to a value between 0 and 10.

Due Date: March 12th, at 10:30am

This assignment will be submitted in two parts:

- Write-up via Gradescope.
- Code via: **`provide comp152san sportvulab sportvu.py Shot_Timeline.png`**

The **`Shot_Timeline.png`** file is simply the file that is generated when you save the plot that your starter code outputs.