

Video Game Data Analyzation & Visualization

Learning objective: Use Python Flask to mine, analyze, and visualize data regarding video games

Technologies: Python, Flask, HTML, CSS, Postman, Chart.js (but can pick whatever library you want)

Intro: As an employee of a data analysis consulting company, you have been tasked with the job of collecting and analyzing data regarding the video game industry. The analysis should answer various evaluation questions regarding what console system is the best to invest in based on video game data.

Sample evaluation question: “what is the best video game console to invest in based on the number of game copies sold globally over the past year?”

Project total: /75

Presentation (this project will be presented to the instructors): /20

(5 points) As a developer, I want to have good, consistent commits.

(5 points) As a developer, I want to use Python Flask to consume a video game web API.

(5 points) As a developer, I want to build an aesthetically pleasing user interface.

(5 points) As a developer, I want to create a Python module with a Blueprint to store all my endpoints (use sample.py for reference)

(10 points) As a developer, I want to visualize the API data in the form of line graphs or charts (using Charts.js or library/module of my choosing)

(10 points) As a video game enthusiast, I want to be able to see a data visualization of which video game console is best to invest in based on the number of game copies sold globally on that console since 2013.

(10 points) As a video game enthusiast, I want to be able to search for a game and see its details.

(10 points) As a video game enthusiast, I want to be able to search for a game and see a data visualization of the number of copies sold per console.

(5 points) As a developer, I want to write a sample evaluation question of my own that can be answered by analyzation of the API data.

(10 points) As a video game enthusiast, I want to see a data visualization of the analyzed data regarding the developer created sample evaluation question.

Bonus:

(5 points) As a video game enthusiast, I want to see a data visualization of which publishers have had the most success per console.