

# Gaming Laptops

By Caleb Pool

## The purpose of this project

- To find out which “Gaming Laptop” in the dataset I would buy for when I travel.
- I want the best overall “Gaming Laptop” in the data set
- I want it to be able to play at-least half the games in the “Videogame Requirements” dataset.
- Best Screen

# Source of Data

**Kaggle,**

“Uncleaned Laptop Price dataset, by Ehtisham Sadiq.

NVIDIA & AMD GPUs Full Specs, by Alan Jo

PC Video Game Requirements v2, by Baraa Zaid

CPU and GPU Stats, by Baraa Zaid (but only cpu table)”

**Intel.com,**

**Techpowerup.com,**

**Beng.com,**

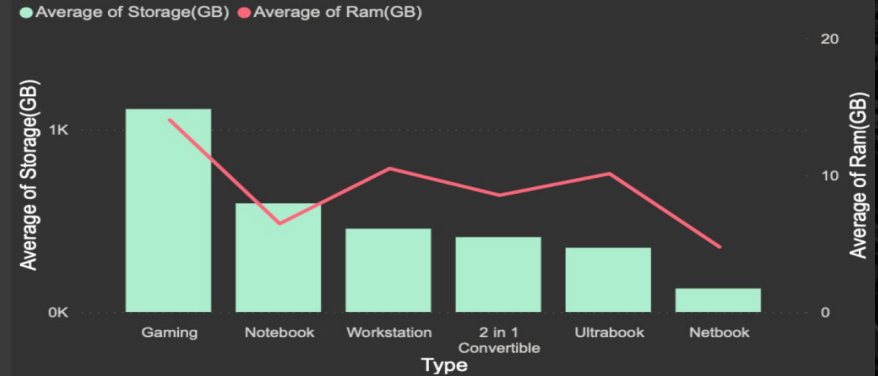
**AceCloudHosting.com,**

**CPUBenchmark.net**

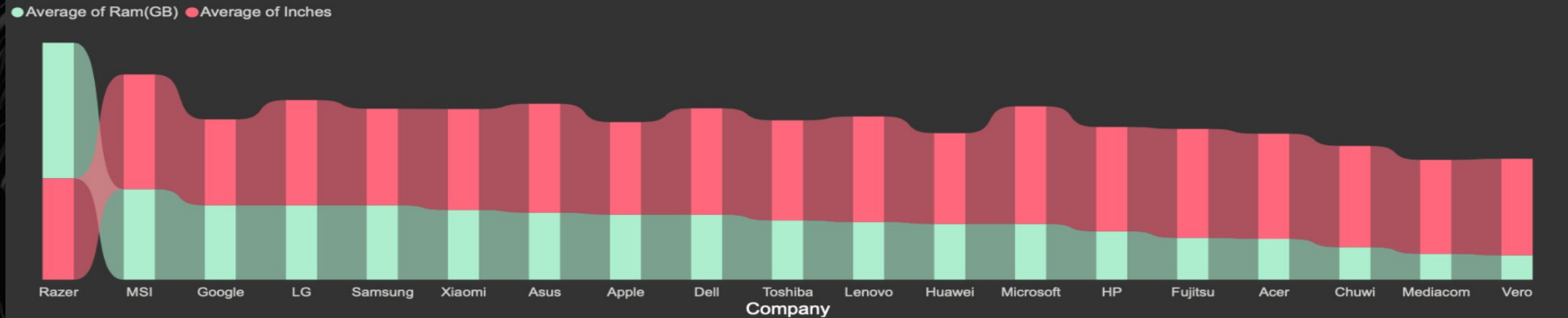
# Analyzing the big picture

## How Laptop Companies and The type of Laptop stack up.

Average of Storage(GB) and Average of Ram(GB) by Type



Average of Ram(GB) and Average of Inches by Company



(Screenshot from Microsoft Power BI report)



Key influencers Top segments

What influences manufacturer to be NVIDIA ?

When...

...the likelihood of manufacturer being NVIDIA increases by

Average of Memory\_Clock(MHz) is 1500 - 1563

2.32x

Average of Memory (GB) is 4 - 6

1.99x

Average of Memory (GB) is more than 16

1.76x

Average of Memory\_Clock(MHz) is 164 - 1353

1.53x

Average of Memory (GB) is 0 - 4

1.30x

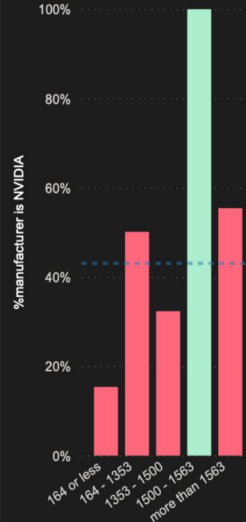
Average of Memory\_Clock(MHz) is more than 1563

1.29x

Average of Memory (GB) is 6 - 16

1.19x

← manufacturer is more likely to be NVIDIA when Average of Memory\_Clock(MHz) is 1500 - 1563 than otherwise (on average).



Average of Memory\_Clock(...

☐ Only show values that are influencers

# The top 2 GPU Manufacturers

NVIDIA vs. AMD

How the average specs compares with their cards vs. all of the other manufacturers.

Key influencers Top segments

What influences manufacturer to be AMD ?

When...

...the likelihood of manufacturer being AMD increases by

Average of Memory (GB) is 1 - 4

2.42x

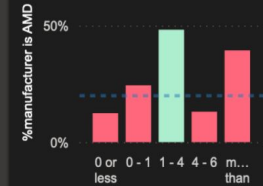
Average of Memory (GB) is more than 6

1.61x

Average of Memory\_Clock(MHz) goes down 509.88

1.23x

← manufacturer is more likely to be AMD when Average of Memory (GB) is 1 - 4 than otherwise (on average).



Average of Memory (GB) (bins)

☐ Only show values that are influencers

(Screenshot from Microsoft Power BI report)

# The Best CPU & GPU in dataset

## CPU

AMD Ryzen™ 7 1700



## GPU

GEFORCE GTX 1080



# Best Laptops with best GPU & CPU

## CPU

LaptopID "226"

***ASUS ROG STRIX AMD 17.3" FHD  
Gaming Laptop***

\*Can play 51% of games in video game dataset



## GPU

LaptopID "1209"

***Razer Blade Pro 17.3" 4K UHD  
Touchscreen Gaming Laptop***

\*Can only play .9% of games in video game dataset





8-CORES  
AWAKENED

ROG STRIX GL702ZC

WORLD'S FIRST GAMING LAPTOP POWERED BY THE  
EIGHT-CORE AMD RYZEN PROCESSOR

\*Laptop I would buy from the data set





For any and all resources/code or would just like to know  
more about my process, please refer to my github repository  
or feel free to reach out.

Thank You!

Github: <https://github.com/calebpool96/Laptop-Dataset-Portfolio->

LinkedIn: <https://www.linkedin.com/in/calebpool96/>

Email: [caleb.pool21@gmail.com](mailto:caleb.pool21@gmail.com)