

Data Analytics Process- Project 1

Plan

To buy a computer to help me in learning and developing my skills in Data Analytics.

Prepare

I have a budget of Rs.45000 within which I need to tick the maximum needs that I need in a computer system. This is what I have saved from my Salary over the past few months.

Process

What will be more suitable a laptop or a Desktop? Let's analyze my needs and then decide on it.

Analyze

Let's analyze what's essential features I need and what are optional premium features which I would like to have.

Essential	Optional
8 GB Ram	NVIDIA GTX 1650 Graphics card
500 GB SSD Hard disks	RGB lights
Processor i5 10 th Generation	Processor i7
Core-6	Core-12
Integrated Graphics	16 GB RAM
Durability	Portability

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Post filtering my needs on Amazon following are the choices that I have:

Components	Laptop 1(essentials)	Laptop 2(Essential +Optional)	Assembled Desktop(essential)	Component Price

Model	MSI GF63 Thin 10SCXR-1616IN	MSI GF65 Thin 10UE-410IN	NO BRAND	
Screen Size	15.6 inches	15.6 inches	ZEBRONICS Zeb-V19Hd 18.5 inches	5799
Processor	I5 10th Gen	I7 10th Gen	I5 10th Gen	16735
Cores	6	12	6	NA
Ram	8 GB	16GB	16 GB	4999
SSD	1 TB	1TB	CRUCIAL P1 500GB	3850
Graphics	Nvidia GeForce GTX 1650 Max Q	NVIDIA GeForce RTX 3060/144 Hz	Integrated UHD intel graphics	NA
Motherboard	NA	NA	ASUS Prime H510M-EMicroATX Motherboard	5599
Power supply	NA	NA	Ant Esports FB550B	2799
Cabinet	NA	NA	DEEPCOOL MATREXX 40	3550
HDMI Cable	NA	NA	Amazon Basics High-Speed HDMI Cable, 6 Feet (2-Pack), Black	399

Total Price	54900	89400		43730
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Act

Based on my needs Laptop 1 is perfect it ticks all my essential + some of the optional featured that I desire. Laptop 2 has all the premium features that I would dream to have. But both these systems are over my budget of Rs. 45000.

The third option i.e., the assembled desktop system that I have does compromise on the premium features like NVIDIA Graphics card and latest processor but it ticks all my essential needs and is still under my budget. Plus, desktops are more reliable compared to laptops and is less expensive to repair if needs arise. It also gives me option to further upgrade my configuration in the future if my need modifies in future.

Based on the above analysis the Desktop is the most suitable among the three and is within my budget. Hence, I have decided to go for it.