

Project documentation

Laptop Products

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Objective

- Identify the most suitable laptop brand by considering both price and customer reviews.



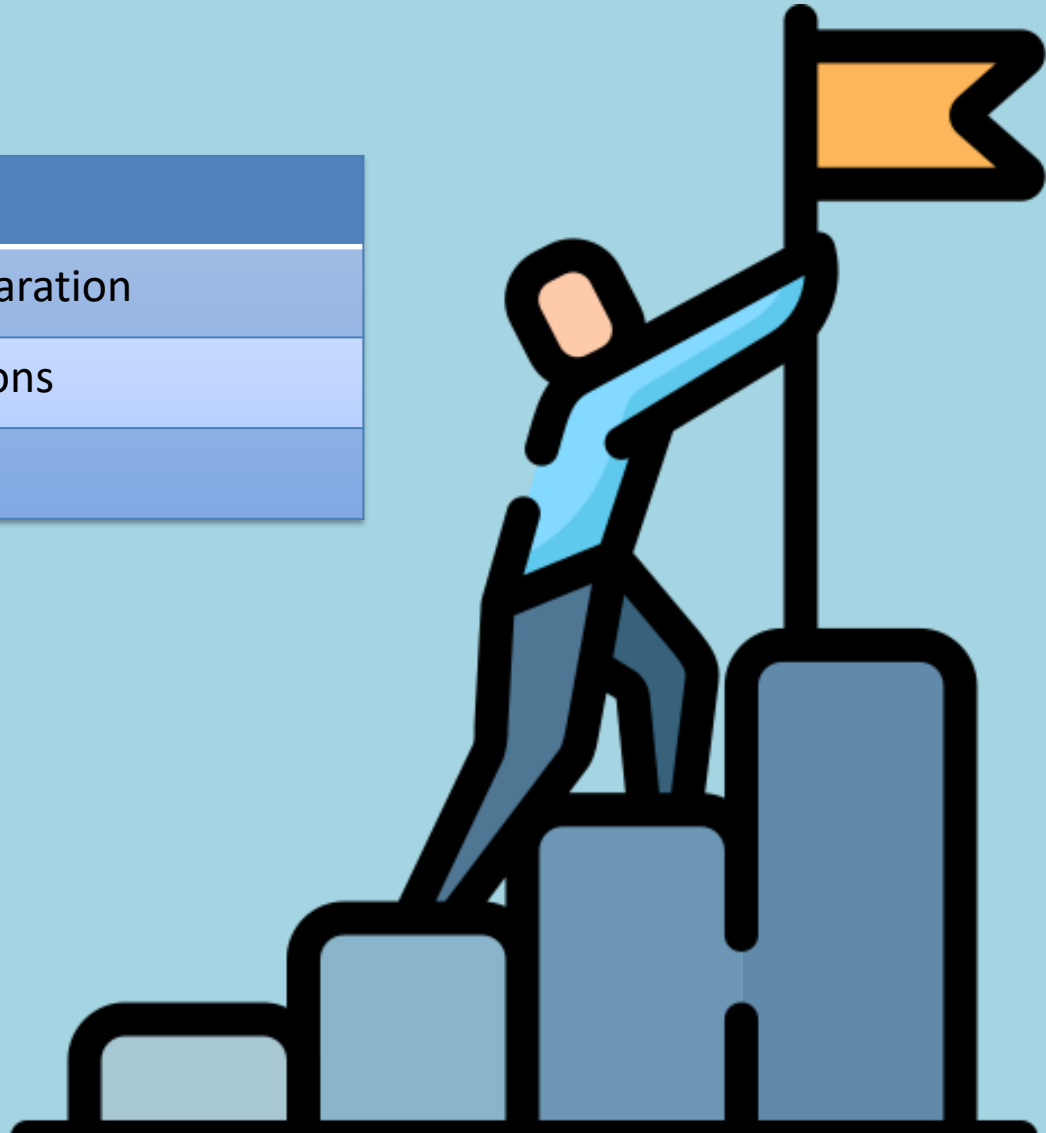
Agenda

Data Description

Data Cleaning and Preparation

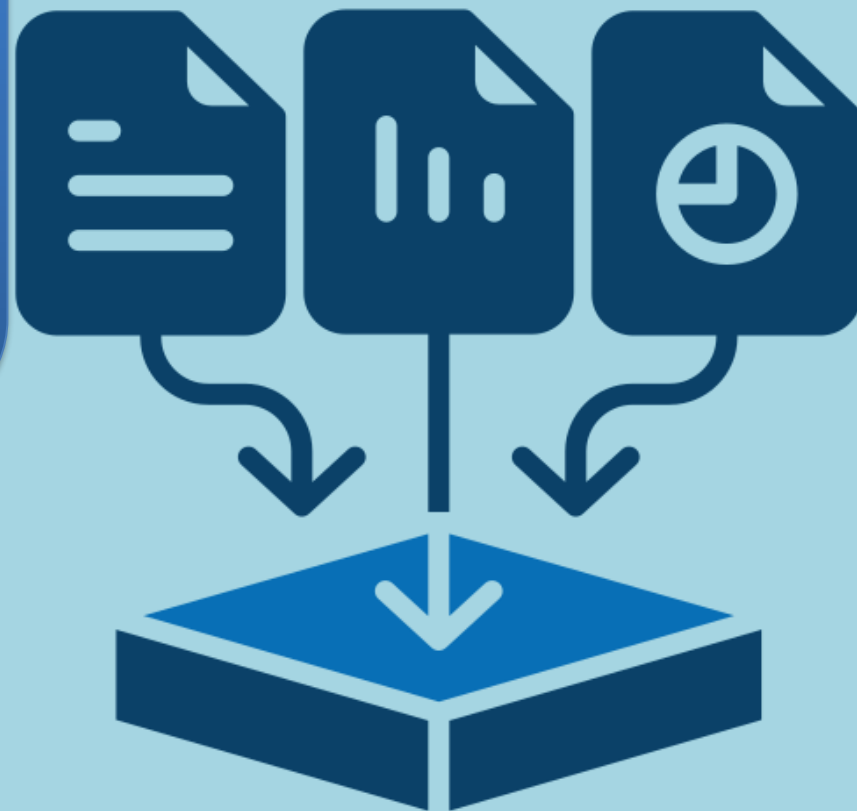
Analysis and Visualizations

Findings and Insights



Data Collection

collecting data from Amazon by scraping information about laptops, which included the laptop name, price, and customer reviews.



Tools Used

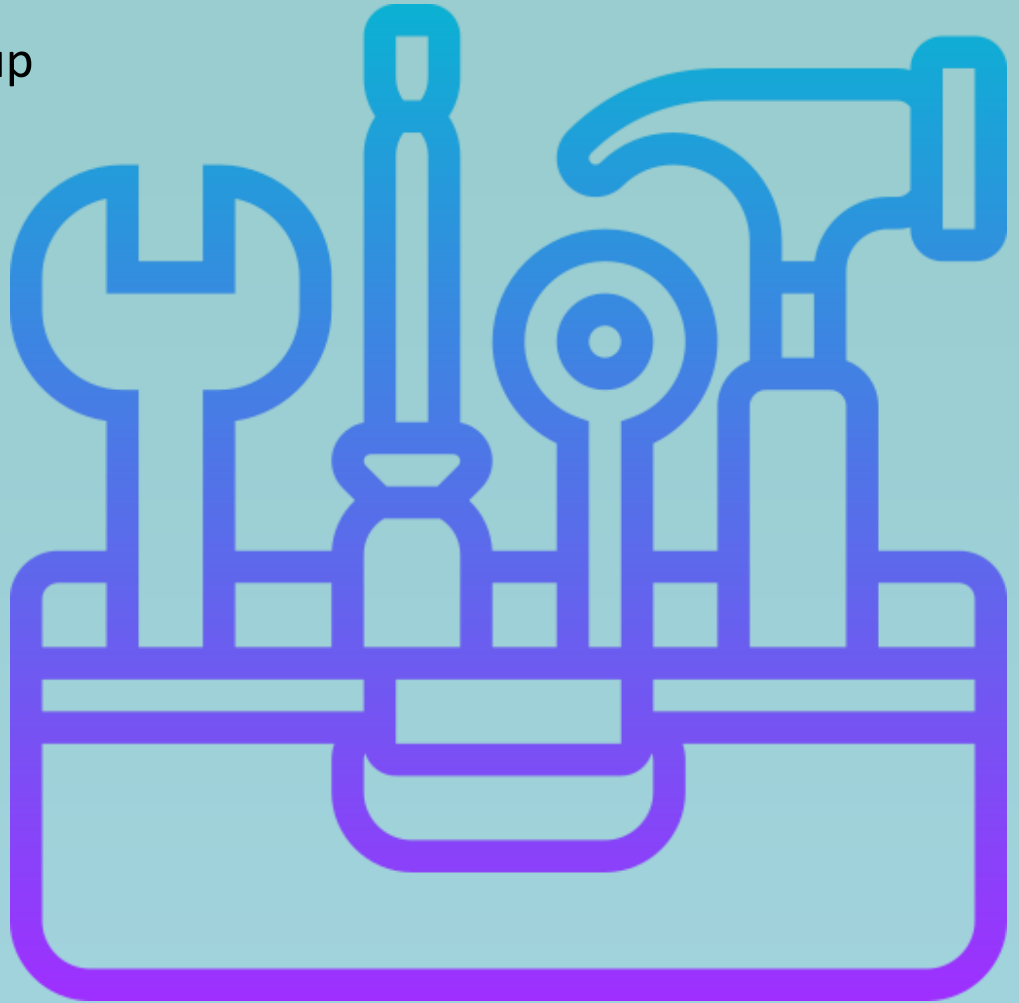
Python libraries such as BeautifulSoup for web scraping.

Pandas for data manipulation.

Requests for making HTTP requests.

CSV for saving the data.

After scraping, the data is organized and saved into a CSV file for easier analysis.



Data Cleaning and Preparation

steps in the data cleaning and preparation phase, which are essential for making the dataset ready for analysis and visualization:

- Remove Duplicates: Ensured each record is unique.
- Find and Replace Values: Corrected inconsistencies in data (e.g "Male" vs "male").
- Categorize Data: Grouped values like income into categories (e.g low, medium, high).

Other important cleaning tasks to focus on:

- Handling Missing Data.
- Converting Data Types.



Analysis and Visualizations

The final Power BI report contains:

- A **Brand Distribution Bar Chart** showing product availability by brand.
- A **Rating Gauge** that displays the average customer rating.
- A **Price Comparison Bar Chart** highlighting the average prices for each brand.
- A **Summary of Total Reviews** to demonstrate the strength of the data.



Findings and Insights

HP

33 products, 4,151 reviews, 4.41 rating, \$1,000+
(Premium, high satisfaction).

Acer

25 products, 71,000 reviews, 4.31 rating, \$700–\$800
(Affordable, well-rated).

Lenovo

19 products, 7,067 reviews, 4.18 rating, \$800–\$900
(Balanced pricing & rating).

Dell

14 products, 79 reviews, 3.51 rating, ~\$2,000
(High-end, lower satisfaction).

Samsung

10 products, 7,025 reviews, 4.4 rating, ~\$1,000 (Best rating, mid-range).



Attachment

The code

```
from bs4 import BeautifulSoup
import pandas as pd
import requests
import csv

URL =
"https://www.amazon.com/s?k=laptop&i=electronics&bbn=172282&rh=n%3A172282%2Cp_89%3AAcer%7CAppl%7CDell%7CHP%7CLenovo%7CSAMSUNG%2Cp_6%3AATVPDKIKX0DER%2Cp_72%3A1248882011&dc&page=10&crd=1MYVLR12FLK7W&qid=1674856773&rnid=1248877011&srefix=lactob%2Caps%2C275&ref=sr_pg_10"
HEADERS = ({ "User-Agent" : "Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/109.0.0.0 Safari/537.36", "Accept-Language": "en-US, en;q=0.5"})
webpage =requests.get(URL, headers=HEADERS)
print(webpage)

soup = BeautifulSoup(webpage.content , "html.parser")
print(soup)
durl = soup.find('a',{'class': "a-link-normal s-underline-text s-underline-link-text s-link-style a-text-normal"})
link = durl.get("href")
link_product = "https://amazon.com"+link
print(link_product)
des = soup.find_all("span", {"class": "a-size-medium a-color-base a-text-normal"})

pr = soup.find_all("span", {"class": "a-price-whole"})

rv = soup.find_all("span", {"class": "a-size-base s-underline-text"})

rt = soup.find_all("span", {"class": "a-icon-alt"})
```

```
Description = []
for i in range(len(des)):
    Description.append(des[i].text)
print (Description)
Price = []
for i in range(len(pr)):
    Price.append(pr[i].text)
print(Price)
Review = []
for i in range(len(rv)):
    Review.append(rv[i].text)
print(Review)
Rating = []
for i in range(len(rt)):
    Rating.append(rt[i].text)
print(Rating)
a = {
    "Description" : Description,
    "Price" : Price,
    "Review" : Review,
    "Rating" : Rating
}
df = pd.DataFrame.from_dict(a, orient='index')
df= df.transpose()

df.to_csv("Amazon_laptob_products2")
print ("saved to file")
```

Attachment

Row Dataset

Automatisches Speichern

Amazon_laptob_products • Auf "diesem PC" gespeichert

Suchen

DatiStartEinfügenSeitenlayoutFormelnDatenÜberprüfenAnsichtHilfe

Einfügen

Schriftart

Ausrichtung

Zahl

Bedingte Formatierung

Als Tabelle formatieren

Zellenformatvorlagen

Einfügen

Löschen

Format

AutoSumme

Ausfüllen

Löschen

Sortieren und Filtern

Suchen und Auswählen

Add-Ins

Datenanalyse

Copilot

Kommentare

Freigeben

A26

SAMSUNG 13.3â€ Galaxy Book2 Pro Laptop Computer, i5 / 8GB / 256GB, 12th Gen Intel Core Processor, Evo Certified, Lightweight, 2022 Model, Graphite

| | A | B | C | D | E | F | G | H | I | J | K | L |
|----|---|----------|--------|--------------------|---|---|---|---|---|---|---|---|
| 1 | Description | Price | Review | Rating | | | | | | | | |
| 2 | Lenovo 2022 Newest Ideapad 3 Laptop, 15.6" HD Touchscreen, 11th Gen Intel Core i3-1115G4 Processor, 8GB DDR4 RAM, 256GB PCIe NVMe SSD, HDMI, Webcam, Wi-Fi 5, Bluetooth, Windows 11 Home, Almond | 959 | 1.730 | 4.4 out of 5 stars | | | | | | | | |
| 3 | Acer Aspire 5 A515-46-R3UB 15.6" Full HD IPS Display AMD Ryzen 3 3350U Quad-Core Mobile Processor 4GB DDR4 128GB NVMe SSD Wi-Fi 6 Backlit KB FPR Amazon Alexa Windows 11 Home in S mode | 352 | 39.338 | 4.5 out of 5 stars | | | | | | | | |
| 4 | Acer Nitro 5 AN515-55-53E5 Gaming Laptop Intel Core i5-10300H NVIDIA GeForce RTX 3050 GPU 15.6" FHD 144Hz IPS Display 8GB DDR4 256GB NVMe SSD Wi-Fi 6 Backlit Keyboard | 775 | 5.180 | 4.5 out of 5 stars | | | | | | | | |
| 5 | Lenovo 2022 Newest Ideapad 3 Laptop, 15.6" HD Touchscreen, 11th Gen Intel Core i3-1115G4 Processor, 8GB DDR4 RAM, 256GB PCIe NVMe SSD, HDMI, Webcam, Wi-Fi 5, Bluetooth, Windows 11 Home, Platinum Grey | 365 | 148 | 4.4 out of 5 stars | | | | | | | | |
| 6 | HP 2020 Flagship 14 Chromebook Laptop Computer 14-Inch HD SVA Anti-Glare Display Intel Celeron N5000 Processor 4GB DDR4 64GB eMMC WiFi Webcam Chrome OS (Renewed) | 139 | 2.331 | 4.4 out of 5 stars | | | | | | | | |
| 7 | Acer Aspire Vero AV15-51-51S5 Green PC 15.6" FHD IPS 100% sRGB Display 11th Gen Intel Core i5-1155G7 Intel Iris Xe Graphics 8GB DDR4 256GB SSD Wi-Fi 6 PCR Materials Windows 11 Home | 559 | 261 | 4.5 out of 5 stars | | | | | | | | |
| 8 | Acer Swift X SFX14-41G-R1S6 Creator Laptop 14" Full HD 100% sRGB AMD Ryzen 7 5800U NVIDIA RTX 3050Ti GPU 16GB LPDDR4X 512GB SSD Wi-Fi 6 Backlit KB Amazon Alexa Windows 10 Home | 775 | 653 | 4.4 out of 5 stars | | | | | | | | |
| 9 | Acer Chromebook 311 Laptop AMD A-Series Dual-Core A4-9120C 11.6" HD Display AMD Radeon R4 Graphics 4GB DDR4 64GB eMMC 802.11ac Wi-Fi 5 Bluetooth 4.2 Chrome OS CB311-10H-42LY | 145 | 513 | 4.3 out of 5 stars | | | | | | | | |
| 10 | Dell Precision 5000 5760 17" Mobile Workstation - Full HD Plus - 1920 x 1200 - Intel Core i7 11th Gen i7-11850H Octa-core (8 Core) 2.50 GHz - 32 GB RAM - 512 GB SSD - Gray | 2.356,00 | 1 | 4.0 out of 5 stars | | | | | | | | |
| 11 | Acer 2022 15inch HD IPS Chromebook, Intel Dual-Core Celeron Processor Up to 2.55GHz, 4GB RAM, 32GB Storage, Super-Fast WiFi Up to 1300 Mbps, Chrome OS-(Renewed) (Dale Silver) | 399 | 711 | 4.4 out of 5 stars | | | | | | | | |
| 12 | Samsung Chromebook 4 Chrome OS 11.6" HD Intel Celeron Processor N4000 4GB RAM 32GB eMMC Gigabit Wi-Fi - XE310X8A-K01US | 139 | 2.327 | 4.4 out of 5 stars | | | | | | | | |
| 13 | Lenovo - Legion 5 - Gaming Laptop - AMD Ryzen 5 5600H - 8GB DDR4 RAM - 512GB NVMe TLC SSD - NVIDIA GeForce RTX 3060 Graphics - 15.6" FHD 120 Hz - Windows 11 Home - Phantom Blue | 899 | 19 | 4.7 out of 5 stars | | | | | | | | |
| 14 | Acer Aspire 5 A515-56-347N Slim Laptop - 15.6" Full HD IPS Display - 11th Gen Intel i3-1115G4 Dual Core Processor - 8GB DDR4 - 128GB NVMe SSD - Wi-Fi 6 - Amazon Alexa - Windows 11 Home in S Mode | 360 | 3.960 | 4.3 out of 5 stars | | | | | | | | |
| 15 | Lenovo IdeaPad 1 Laptop, 14.0" HD Display, Intel Celeron N4020, 4GB RAM, 64GB Storage, Intel UHD Graphics 600, Windows 11 in S Mode, Ice Blue | 215 | 1.232 | 4.2 out of 5 stars | | | | | | | | |
| 16 | Lenovo IdeaPad 1 14 Laptop, 14.0" HD Display, Intel Celeron N4020, 4GB RAM, 64GB Storage, Intel UHD Graphics 600, Win 10 in S Mode, Ice Blue | 251 | 1.634 | 4.4 out of 5 stars | | | | | | | | |
| 17 | Acer Nitro 5 AN515-58-725A Gaming Laptop Intel Core i7-12700H NVIDIA GeForce RTX 3060 GPU 15.6" FHD 144Hz 3ms IPS Display 16GB DDR4 512GB Gen 4 SSD Killer Wi-Fi 6 RGB Keyboard | 1.449,00 | 5.243 | 4.6 out of 5 stars | | | | | | | | |
| 18 | Lenovo - 2021 - IdeaPad Gaming 3 - Laptop Computer - 15.6" FHD Display -120Hz - AMD Ryzen 5 5600H - 8GB RAM - 256GB Storage - NVIDIA GeForce GTX 1650 - Windows 11 Home | 807 | 1.240 | 4.4 out of 5 stars | | | | | | | | |
| 19 | Lenovo - Legion 5i - Gaming Laptop - Intel Core i7-11800H - 8GB DDR4 RAM - 1TB NVMe TLC SSD - NVIDIA GeForce RTX 3050 Ti Graphics - 17.3" FHD 144Hz - Windows 11 Home - Phantom Blue | 999 | 6 | 3.1 out of 5 stars | | | | | | | | |
| 20 | Lenovo - Legion 5 - Gaming Laptop - 15.6" FHD - AMD Ryzen 5 5600H - 8GB DDR4 RAM - 512GB NVMe TLC SSD - NVIDIA GeForce RTX 3050 Ti Graphics - Windows 11 Home - Phantom Blue | 863 | 15 | 4.8 out of 5 stars | | | | | | | | |
| 21 | Lenovo - 2022 - IdeaPad Flex 5i - 2-in-1 Chromebook Laptop Computer - Intel Core i3-1115G4 - 13.3" FHD Touch Display - 8GB Memory - 256GB Storage - Chrome OS | 329 | 537 | 4.5 out of 5 stars | | | | | | | | |
| 22 | Acer Predator Helios 300 Gaming Laptop 12th Gen Intel i7-12700H GeForce RTX 3060 Laptop GPU 17.3" Full HD 144Hz 3ms IPS Display 16GB DDR5 512GB Gen 4 SSD Killer Wi-Fi 6E PH317-56-70XJ | 1.702,00 | 3.597 | 4.6 out of 5 stars | | | | | | | | |
| 23 | Lenovo - Legion Slim 7 - Gaming Laptop - AMD Ryzen 7 5800H - 16GB DDR4 RAM - 2 x 1TB NVMe TLC SSD - NVIDIA GeForce RTX 3060 Max-Q Graphics - 15.6" FHD 165 Hz - Windows | 1.199,00 | 40 | 4.8 out of 5 stars | | | | | | | | |
| 24 | Acer Swift 3 Intel Evo Thin & Light Laptop 14.0" Full HD IPS Intel i7-1165G7 Intel Iris Xe Graphics 8GB LPDDR4X 512GB SSD Wi-Fi 6 Fingerprint Reader Backlit KB SF314-511-7412 | 863 | 238 | 4.3 out of 5 stars | | | | | | | | |
| 25 | Acer Chromebook Spin 311 Convertible Laptop Intel Celeron N4000 11.6" HD Touch Corning Gorilla Glass Display 4GB LPDDR4 64GB eMMC Intel 802.11ac Gigabit WiFi 5 Chrome OS CP311-2H-C7QD | 185 | 11.245 | 4.6 out of 5 stars | | | | | | | | |
| 26 | SAMSUNG 13.3â€ Galaxy Book2 Pro Laptop Computer, i5 / 8GB / 256GB, 12th Gen Intel Core Processor, Evo Certified, Lightweight, 2022 Model, Graphite | 810 | 11 | 4.2 out of 5 stars | | | | | | | | |
| 27 | Acer Swift X SFX14-51G-71Y1 Creator Laptop 14" 2240 x 1400 100% sRGB 12th Gen Intel i7-1260P NVIDIA RTX 3050 Laptop GPU 16GB LPDDR5 512GB NVMe SSD Wi-Fi 6E Backlit Keyboard Windows 11 | 1.148,00 | 11 | 4.0 out of 5 stars | | | | | | | | |
| 28 | Acer Predator Helios 300 Gaming Laptop 12th Gen Intel i7-12700H GeForce RTX 3060 Laptop GPU 17.3" Full HD 144Hz 3ms IPS Display 16GB DDR5 512GB Gen 4 SSD Killer Wi-Fi 6E PH317-56-70XJ | 1.702,00 | 3.598 | 4.6 out of 5 stars | | | | | | | | |
| 29 | Acer ConceptD 3 Pro CN315-71P-58N0 Creator Laptop, Intel i5-9300H, NVIDIA Quadro T1000, NVIDIA Studio, 15.6" FHD IPS, 100% DCI-P3 Color Gamut, Pantone Validated, Delta E<2, 16GB DDR4, 512GB NVMe SSD | 1.353,00 | 3 | 4.1 out of 5 stars | | | | | | | | |
| 30 | Acer Porsche Design Book RS AP714-51T-592V, Thin & Light Intel Evo, 14" FHD Touch, 11th Gen Core i5-1135G7, Intel Iris Xe Graphics, 8GB LPDDR4X, 512GB NVMe SSD, Intel Wi-Fi 6, FPR, Backlit KB | 1.399,00 | 5 | 4.8 out of 5 stars | | | | | | | | |
| 31 | SAMSUNG 14" Galaxy Book2 Business Laptop Computer, i7P / 32GB / 1TB, Windows 11 PRO, 12th Gen Intel vPro 28W Processor w/ Enhanced Security, 2022 Model, â€NP641BEF-KA3US, Graphite | 3.209,00 | 1 | 5.0 out of 5 stars | | | | | | | | |
| 32 | HP 14" Touchscreen Chromebook - Intel Celeron N3350 - 4GB Memory - 32GB eMMC - Wi-Fi & Bluetooth - Webcam - Gray | 247 | 349 | 4.6 out of 5 stars | | | | | | | | |
| 33 | HP Stream 14inch HD(1366x768) Display, Intel Celeron N4000 Dual-Core Processor, 4GB RAM, 32GB eMMC, HDMI, Wi-Fi, Webcam, Bluetooth, Win10 S, Royal Blue, 14-cb161wm (Renewed) | 438 | 1.166 | 4.4 out of 5 stars | | | | | | | | |
| 34 | SAMSUNG 13.3â€ Galaxy Book2 Pro Laptop Computer, i7 / 8GB / 512GB, 12th Gen Intel Core Processor, Evo Certified, Lightweight, 2022 Model, Graphite | 999 | 205 | 4.3 out of 5 stars | | | | | | | | |
| 35 | Dell C1422H 14" Full HD LCD Monitor - 16.9 - Silver | 269 | 55 | 4.3 out of 5 stars | | | | | | | | |
| 36 | Dell Latitude 5000 5421 14" Notebook - Full HD - 1920 x 1080 - Intel Core i7 11th Gen i7-11850H Octa-core (8 Core) 2.50 GHz - 16 GB RAM - 256 GB SSD - Titan Gray Dull | 1.352,00 | 1 | 5.0 out of 5 stars | | | | | | | | |
| 37 | SAMSUNG Electronics Chromebook 4 (2021 Model Without SD Slot) 11.6" FHD Intel UHD Graphics 600, Celeron Processor N4020, 4GB, 32GB, Wi-Fi - Platinum Titan (XE310X8A-KC1US) | 213 | 81 | 4.0 out of 5 stars | | | | | | | | |
| 38 | Lenovo Flex 5i - 14.0" FHD Touch Display - Intel Core i7-1165G7 - 12GB DDR4 RAM - 512GB M.2 NVMe SSD - Intel Iris Xe Graphics - Windows 11 Home - Graphite Grey | 795 | 13 | 4.8 out of 5 stars | | | | | | | | |
| 39 | Lenovo Chromebook C340 Laptop, 15.6" FHD (1920 X 1080) Display, Intel Core i3-8130U Processor, 4GB DDR4 RAM, 64GB SSD, Intel UHD Graphics 620, Chrome OS, 2 In 1 Touchscreen, 81T90002UX, Mineral Grey | 423 | 237 | 4.2 out of 5 stars | | | | | | | | |
| 40 | Dell Precision 3000 3571 15.6" Mobile Workstation - Full HD - 1920 x 1080 - Intel Core i7 12th Gen i7-12800H Decode-core (12 Core) 2.40 GHz - 16 GB Total RAM - 512 GB SSD - Titan Gray | 1.986,00 | 1 | 5.0 out of 5 stars | | | | | | | | |
| 41 | Dell XPS 13 Plus 9320 13.4" Touchscreen Notebook - 3.5K - 3456 x 2160 - Intel Core i7 12th Gen i7-1260P Decode-core (12 Core) - Intel Evo Platform - 32 GB Total RAM - 32 GB On-Board Memory - 1 TB SSD | 2.101,00 | 1 | 2.0 out of 5 stars | | | | | | | | |

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Amazon_laptob_products

Cleaning

+

Barrierefreiheit: Keine Probleme

89%

Attachment

Data Cleaning and Preparation

Automatisches Speichern

Amazon_laptob_products - Auf "diesem PC" gespeichert

Suchen

DateiStartEinfügenSeitenlayoutFormelnDatenÜberprüfenAnsichtHilfe

Einfügen

Schriftart

Ausrichtung

Zahl

Formatvorlagen

Zellen

Bearbeiten

Add-Ins

Freigeben

| | A | B | C | D | E | F | G | H | I | J |
|----|---------|--|----------|--------|--------------------------|---|---|---|---|---|
| | Brand | Description | Price | Review | Rating (out of 5 stars) | | | | | |
| 1 | Acer | Acer Aspire 5 A515-46-R3UB 15.6" Full HD IPS Display AMD Ryzen 3 3350U Quad-Core Mobile Processor 4GB DDR4 128GB NVMe SSD WiFi 6 Backlit KB FPR Amazon Alexa Windows 11 Home in S mode | \$ 352 | 39338 | 4,5 | | | | | |
| 2 | Acer | Acer Chromebook Spin 311 Convertible Laptop Intel Celeron N4000 11.6" HD Touch Corning Gorilla Glass Display 4GB LPDDR4 64GB eMMC Intel 802.11ac Gigabit WiFi 5 Chrome OS CP311-2H-C7QD | \$ 185 | 11245 | 4,6 | | | | | |
| 3 | Acer | Acer Nitro 5 AN515-58-725A Gaming Laptop Intel Core i7-12700H NVIDIA GeForce RTX 3060 GPU 15.6" FHD 144Hz 3ms IPS Display 16GB DDR4 512GB Gen 4 SSD Killer Wi-Fi 6 RGB Keyboard | \$ 1.449 | 5243 | 4,6 | | | | | |
| 4 | Acer | Acer Nitro 5 AN515-55-53E5 Gaming Laptop Intel Core i5-10300H NVIDIA GeForce RTX 3050 GPU 15.6" FHD 144Hz IPS Display 8GB DDR4 256GB NVMe SSD Wi-Fi 6 Backlit Keyboard | \$ 775 | 5180 | 4,5 | | | | | |
| 5 | Samsung | SAMSUNG Galaxy Chromebook 4 11.68€ 64GB Laptop Computer w/ 4GB RAM, Gigabit WiFi, HD Intel Celeron Processor, Compact Design, Military Grade Durability, US Version, Silver | \$ 233 | 4134 | 4,4 | | | | | |
| 6 | Acer | Acer Aspire 5 A515-56-347N Slim Laptop - 15.6" Full HD IPS Display - 11th Gen Intel i3-1115G4 Dual Core Processor - 8GB DDR4 - 128GB NVMe SSD - WiFi 6 - Amazon Alexa - Windows 11 Home in S Mode | \$ 360 | 3960 | 4,3 | | | | | |
| 7 | Acer | Acer Predator Helios 300 Gaming Laptop 12th Gen Intel i7-12700H GeForce RTX 3060 Laptop GPU 17.3" Full HD 144Hz 3ms IPS Display 16GB DDR5 512GB Gen 4 SSD Killer Wi-Fi 6E PH317-56-70XU | \$ 1.702 | 3597 | 4,6 | | | | | |
| 8 | HP | HP 2020 Flagship 14 Chromebook Laptop Computer 14-inch HD SVA Anti-Glare Display Intel Celeron N5000 Processor 4GB DDR4 64GB eMMC WiFi Webcam Chrome OS (Renewed) | \$ 139 | 2331 | 4,4 | | | | | |
| 9 | Samsung | Samsung Chromebook 4 Chrome OS 11.6" HD Intel Celeron Processor N4000 4GB RAM 32GB eMMC Gigabit Wi-Fi - XE130XBA-K01US | \$ 139 | 2327 | 4,4 | | | | | |
| 10 | Lenovo | Lenovo 2022 Newest Ideapad 3 Laptop, 15.6" HD Touchscreen, 11th Gen Intel Core i3-1115G4 Processor, 8GB DDR4 RAM, 256GB PCIe NVMe Ssd, HDMI, Webcam, Wi-Fi 5, Bluetooth, Windows 11 Home, Almond | \$ 959 | 1730 | 4,4 | | | | | |
| 11 | Lenovo | Lenovo IdeaPad 1 14 Laptop, 14.0" HD Display, Intel Celeron N4020, 4GB RAM, 64GB Storage, Intel UHD Graphics 600, Win 10 in S Mode, Ice Blue | \$ 251 | 1634 | 4,4 | | | | | |
| 12 | Lenovo | Lenovo - 2021 - IdeaPad Gaming 3 - Laptop Computer - 15.6" FHD Display -120Hz - AMD Ryzen 5 5600H - 8GB RAM - 256GB Storage - NVIDIA GeForce GTX 1650 - Windows 11 Home | \$ 807 | 1240 | 4,4 | | | | | |
| 13 | Lenovo | Lenovo IdeaPad 3 Laptop, 14.0" HD Display, Intel Celeron N4020, 4GB RAM, 64GB Storage, Intel UHD Graphics 600, Windows 11 in S Mode, Ice Blue | \$ 215 | 1232 | 4,2 | | | | | |
| 14 | HP | HP Stream 14inch HD(1366x768) Display, Intel Celeron N4000 Dual-Core Processor, 4GB RAM, 32GB eMMC, HDMI, WiFi, Webcam, Bluetooth, Win10 S, Royal Blue, 14-cb161wm (Renewed) | \$ 438 | 1166 | 4,4 | | | | | |
| 15 | Acer | Acer 2022 15inch HD IPS Chromebook, Intel Dual-Core Celeron Processor Up to 2.55GHz, 4GB RAM, 32GB Storage, Super-Fast WiFi Up to 1300 Mbps, Chrome OS-(Renewed) (Dale Silver) | \$ 399 | 711 | 4,4 | | | | | |
| 16 | Acer | Acer Swift X SFX14-41G-R1S6 Creator Laptop 14" Full HD 100% sRGB AMD Ryzen 7 5800U NVIDIA RTX 3050Ti GPU 16GB LPDDR4X 512GB SSD Wi-Fi 6 Backlit KB Amazon Alexa Windows 10 Home | \$ 775 | 653 | 4,4 | | | | | |
| 17 | Lenovo | Lenovo - 2022 - IdeaPad Flex 5i - 2-in-1 Chromebook Laptop Computer - Intel Core i3-1115G4 - 13.3" FHD Touch Display - 8GB Memory - 256GB Storage - Chrome OS | \$ 329 | 537 | 4,5 | | | | | |
| 18 | Acer | Acer Chromebook 311 Laptop AMD A-Series Dual-Core A4-9120C 11.6" HD Display AMD Radeon R4 Graphics 4GB DDR4 64GB eMMC 802.11ac WiFi 5 Bluetooth 4.2 Chrome OS CB311-10H-42LY | \$ 145 | 513 | 4,3 | | | | | |
| 19 | HP | HP 14" Touchscreen Chromebook - Intel Celeron N3350 - 4GB Memory - 32GB eMMC - WiFi & Bluetooth - Webcam - Gray | \$ 247 | 349 | 4,6 | | | | | |
| 20 | Acer | Acer Aspire Vero AV15-51-5155 Green PC 15.6" FHD IPS 100% sRGB Display 11th Gen Intel Core i5-1155G7 Intel Iris Xe Graphics 8GB DDR4 256GB SSD Wi-Fi 6 PCR Materials Windows 11 Home | \$ 559 | 261 | 4,5 | | | | | |
| 21 | Acer | Acer Swift 3 Intel Evo Thin & Light Laptop 14.0" Full HD IPS Intel Core i7-1165G7 Intel Iris Xe Graphics 8GB LPDDR4X 512GB SSD Wi-Fi 6 Fingerprint Reader Back-lit KB SF314-511-7412 | \$ 863 | 238 | 4,3 | | | | | |
| 22 | Lenovo | Lenovo Chromebook C340 Laptop, 15.6" FHD (1920 X 1080) Display, Intel Core i3-8130U Processor, 4GB DDR4 RAM, 64GB SSD, Intel UHD Graphics 620, Chrome OS, 2 In 1 Touchscreen, 81T90002UX, Mineral Grey | \$ 423 | 237 | 4,2 | | | | | |
| 23 | Samsung | Samsung - Plus 2-in-1 12.2" Touch-Screen Chromebook - Intel Celeron - 4GB Memory - 32GB eMMC Flash Memory - Stealth Silver | \$ 359 | 237 | 4,5 | | | | | |
| 24 | Samsung | SAMSUNG 13.38€ Galaxy Book2 Pro Laptop Computer, i7 / 8GB / 512GB, 12th Gen Intel Core Processor, Evo Certified, Lightweight, 2022 Model, Graphite | \$ 999 | 205 | 4,3 | | | | | |
| 25 | HP | HP 14 Laptop, Intel Celeron N4020, 4 GB RAM, 64 GB Storage, 14-inch, Indigo Blue & Wireless Mouse X3000 G2 (28Y30AA, Black) up to 15-Month Battery,Scroll Wheel | \$ 304 | 178 | 4,4 | | | | | |
| 26 | Lenovo | Lenovo IdeaPad 3 Laptop, 14.0" FHD Display, Intel Core i3-1005G1, 4GB RAM, 128GB Storage, Windows 11 S | \$ 374 | 169 | 4,0 | | | | | |
| 27 | Lenovo | Lenovo 2022 Newest Ideapad 3 Laptop, 15.6" HD Touchscreen, 11th Gen Intel Core i3-1115G4 Processor, 8GB DDR4 RAM, 256GB PCIe NVMe SSD, HDMI, Webcam, Wi-Fi 5, Bluetooth, Windows 11 Home, Platinum Grey | \$ 365 | 148 | 4,4 | | | | | |
| 28 | Samsung | SAMSUNG Electronics Chromebook 4 (2021 Model Without SD Slot) 11.6" Intel UHD Graphics 600, Celeron Processor N4020, 4GB, 32GB, Wi-Fi - Platinum Titan (XE130XBA-KC1US) | \$ 213 | 81 | 4,0 | | | | | |
| 29 | Dell | Dell C1422H 14" Full HD LCD Monitor - 16.9 - Silver | \$ 269 | 55 | 4,3 | | | | | |
| 30 | Acer | Acer Nitro 5 AN515-55-53E5, Intel i5-10300H, RTX 3050 GPU, 15.6" FHD 144Hz Display, 8GB DDR4, 256GB SSD, Wi-Fi 6 with AOPEN 16PG7QT Pblmiuuzx 144Hz 15.6-inch FHD (1920 x 1080) Portable IPS Touchscreen | \$ 1.025 | 49 | 4,9 | | | | | |
| 31 | Lenovo | Lenovo - Legion Slim 7 - Gaming Laptop - AMD Ryzen 7 5800H - 16GB DDR4 RAM - 2 x 1TB NVMe TLC SSD - NVIDIA GeForce RTX 3060 Max-Q Graphics - 15.6" FHD 165 Hz - Windows | \$ 1.199 | 40 | 4,8 | | | | | |
| 32 | HP | HP Stream 11 Pro G5 11.6" HD Laptop, Intel Celeron N4000, 4GB RAM, 64GB eMMC, Intel UHD Graphics 600, Windows 10 Pro | \$ 231 | 32 | 4,1 | | | | | |
| 33 | Acer | Acer Chromebook Spin 513 R841LT-S6DJ 13.3" FHD IPS Touch Corning Gorilla Glass Display Qualcomm Snapdragon 7c Compute Platform 8GB LPDDR4X 128GB eMMC 4G LTE WiFi 5 Chrome OS | \$ 571 | 28 | 4,4 | | | | | |
| 34 | HP | HP OMEN 17.3-in Gaming Laptop Computer i7 16GB 512GB RTX 2060 6GB - 17-cb1070nr - Black | \$ 1.602 | 26 | 4,6 | | | | | |
| 35 | Lenovo | Lenovo - Legion 5 - Gaming Laptop - AMD Ryzen 5 5600H - 8GB DDR4 RAM - 512GB NVMe TLC SSD - NVIDIA GeForce RTX 3060 Graphics - 15.6" FHD 120 Hz - Windows 11 Home - Phantom Blue | \$ 899 | 19 | 4,7 | | | | | |
| 36 | Lenovo | Lenovo T460s Ultrabook 20F9003CUS (14" Display, Intel i7-6600U 2.6GHz, 8GB RAM, 256GB SSD, Webcam, Backlit Keyboard, Fingerprint Reader, Windows 7 Pro 64) | \$ 1.597 | 18 | 3,7 | | | | | |
| 37 | Acer | Acer Chromebook 11 N7 11.6" Traditional Laptop (NX.GM8AA.001/C731-C8VEN) | \$ 269 | 17 | 4,4 | | | | | |
| 38 | Lenovo | Lenovo - Legion 5 - Gaming Laptop - 15.6" FHD - AMD Ryzen 5 5600H - 8GB DDR4 RAM - 512GB NVMe TLC SSD - NVIDIA GeForce RTX 3050 Ti Graphics - Windows 11 Home - Phantom Blue | \$ 863 | 15 | 4,8 | | | | | |
| 39 | Samsung | SAMSUNG 15.68€ Galaxy Book2 Pro with Intel ARC Laptop Computer, i7 / 32GB / 1TB, 12th Gen Intel Core Processor, Evo Certified, Lightweight, 2022 Model, Graphite | \$ 1.799 | 15 | 4,0 | | | | | |
| 40 | Lenovo | Lenovo Flex 5i - 14.0" FHD Touch Display - Intel Core i7-1165G7 - 12GB DDR4 RAM - 512GB M.2 NVMe SSD - Intel Iris Xe Graphics - Windows 11 Home - Graphite Grey | \$ 795 | 13 | 4,8 | | | | | |

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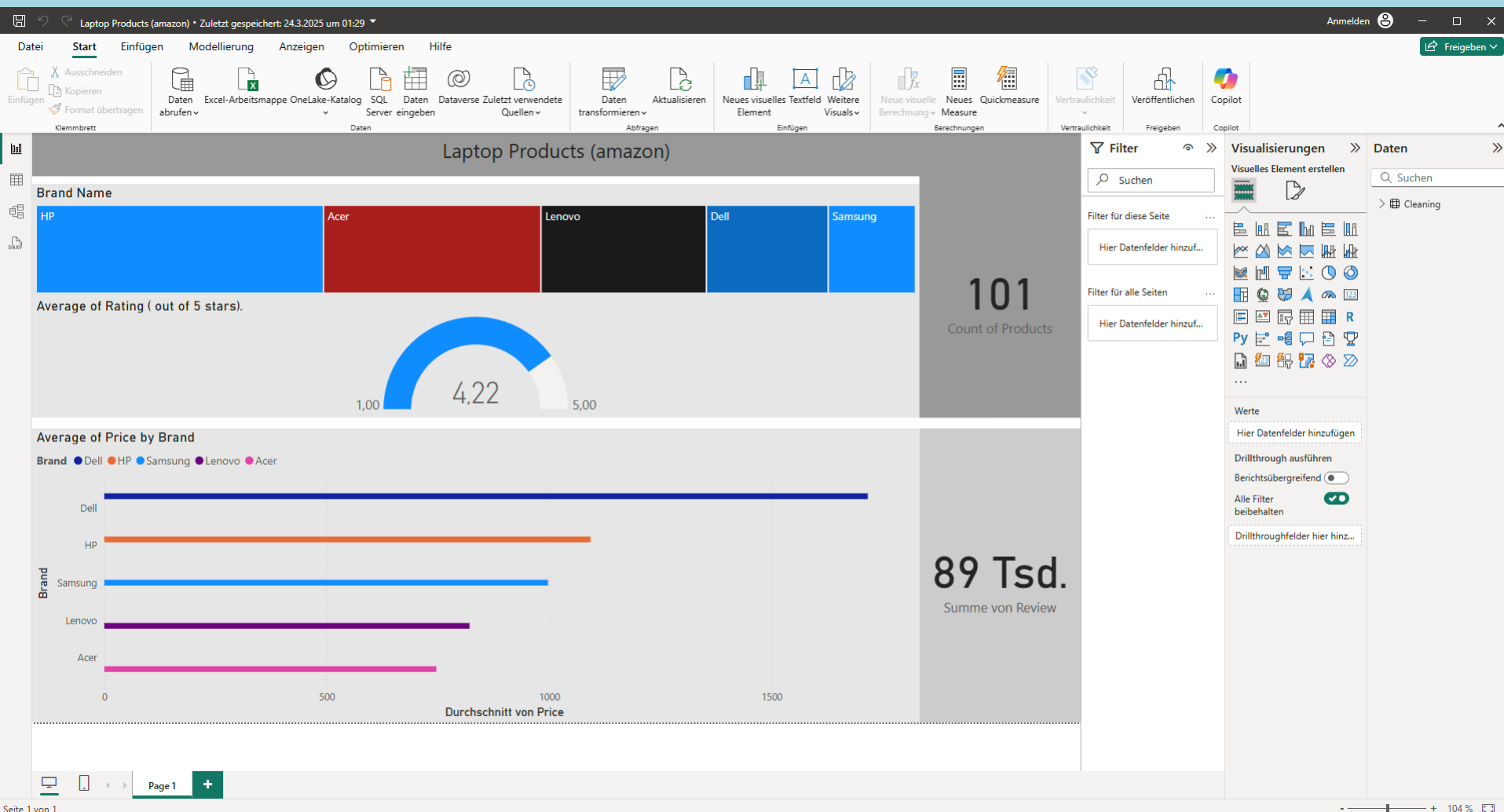
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Attachment

Analysis and Visualizations



Thank you for your attention