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productRecommendations = {  
  'smartphone': {  
    'budget': ['Redmi Note series', 'Moto G Power'],  
    'photography': ['Google Pixel 6a', 'OnePlus Nord 2'],  
  },  
  'laptop': {  
    'programming': ['Dell XPS 13', 'MacBook Air M1'],  
    'video editing': ['MacBook Pro M1', 'Dell XPS 15'],  
    'student': ['Lenovo Yoga 7i', 'HP Spectre x360'],  
    'reliable': ['Lenovo ThinkPad', 'Apple MacBook']  
  },  
  'smartwatch': {  
    'fitness': ['Apple Watch Series 8', 'Fitbit Charge 5'],  
    'android': ['Samsung Galaxy Watch 6', 'Garmin Venu 2'],  
    'seniors': ['Apple Watch SE', 'Fitbit Sense']  
  },  
  'camera': {  
    'beginner': ['Canon EOS Rebel T7i', 'Nikon D3500'],  
    'wildlife': ['Nikon D850', 'Canon EOS 90D'],  
    'vlogging': ['Sony ZV-1', 'Canon EOS M50 Mark II'],  
    'action': ['GoPro Hero 11', 'DJI Osmo Action']  
  },  
  'headphones': {  
    'noise canceling': ['Sony WH-1000XM4', 'Bose QuietComfort 35 II'],  
    'gaming': ['SteelSeries Arctis 7', 'HyperX Cloud II Wireless'],  
    'true wireless': ['Sony WF-1000XM4', 'Apple AirPods Pro']  
  },  
  'tablet': {  
    'drawing': ['iPad Pro with Apple Pencil', 'Wacom Cintiq'],  
    'kids': ['Amazon Fire HD 10 Kids Edition', 'iPad Mini']  
  },  
  'monitor': {  
    'gaming': ['ASUS TUF Gaming VG289Q', 'LG 27GN950-B'],  
    '4K': ['TCL 6-Series', 'Vizio M-Series']  
  }  
}
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},
'soundbar': {
  'budget': ['Vizio V-Series 2.1', 'TCL Alto 6+'],
  'home theater': ['Sonos Arc', 'Samsung HW-Q950A']
},
'gaming_console': {
  'playstation': ['PlayStation 5'],
  'xbox': ['Xbox Series X']
},
'robot_vacuum': {
  'pet_hair': ['iRobot Roomba i7+', 'Shark IQ Robot XL'],
  'hardwood': ['iRobot Roomba s9+', 'Eufy RoboVac 11S']
},
'drone': {
  'budget': ['DJI Mini 2', 'Ryze Tello']
},
'projector': {
  'portable': ['Anker Nebula Capsule', 'ViewSonic M1 Mini']
},
'external_hard_drive': {
  'reliable': ['Seagate Backup Plus', 'Western Digital My Passport']
},
'gaming_mouse': {
  'budget': ['Logitech G203', 'Razer DeathAdder Essential']
},
'keyboard': {
  'ergonomic': ['Logitech Ergo K860', 'Microsoft Sculpt Ergonomic'],
  'mechanical': ['Razer Huntsman Elite', 'Corsair K95 RGB Platinum']
},
'microphone': {
  'streaming': ['Blue Yeti', 'Elgato Wave:3']
},
'power_bank': {
  'fast_charging': ['Anker PowerCore 10000 PD', 'RAVPower Portable Charger']
}
```

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},  
'thermostat': {  
  'energy_savings': ['Google Nest Learning Thermostat', 'Ecobee SmartThermostat']  
},  
'fitness_tracker': {  
  'swimming': ['Garmin Swim 2', 'Fitbit Charge 5']  
},  
'electric_scooter': {  
  'commuting': ['Xiaomi Mi Electric Scooter', 'Segway Ninebot Max']  
},  
'gaming_chair': {  
  'budget': ['GTRACING Gaming Chair', 'RESPAWN 110']  
},  
'wireless_speaker': {  
  'good_bass': ['JBL Charge 5', 'Ultimate Ears Boom 3']  
}
```