DEFINITIONS

- Computer Network: Group of interconnected devices.
- Telecommunication: Communication at a distance.
- Data: Processed information. (in this context)

Types of Networks

- GEO COVERAGE -

- Personal Area Network (PAN): Very small area, e.g., Bluetooth.
- Local Area Network (LAN): Small area, high speed, e.g., home, office.
- Metropolitan Area Network (MAN): City-wide network, e.g., cable TV network.
- Wide Area Network (WAN): Large area, e.g., internet.

Topologies

Arrangement of nodes in a network.

- **Bus**: Single central cable (bus). Easy to install, but hard to troubleshoot.
- Star: Central hub with nodes connected. Easy to manage, but hub failure affects all.
- Ring: Nodes connected in a circle. Data travels in one direction, but a break can disrupt the network.
- **Mesh**: Every node connected to every other. High redundancy, but expensive.

COMPUTER NETWORKS