## 🖥️ PPT: From ARPANET to 5G: The Evolution of the Internet & How It Works

### ****Slide 1 – Title Slide****

* Title: From ARPANET to 5G: The Evolution of the Internet & How It Works
* Subtitle: Presented by Mayur Patil
* Visual: Background with network nodes or globe with connections.

### ****Slide 2 – Introduction****

* “The Internet is part of our daily lives, but do we know how it started and how it works?”
* Quick stat: Over 5 billion users today.
* Visual: World map with glowing internet nodes.

### ****Slide 3 – Birth of the Internet (ARPANET, 1969)****

* Cold War → need for secure communication.
* ARPANET = first packet-switched network.
* Connected 4 universities in the US.
* Visual: Simple diagram of ARPANET with 4 nodes.

### ****Slide 4 – Growth in the 1970s–80s****

* Introduction of **TCP/IP (1983)** → foundation of internet.
* Email became popular.
* First domain name registered in 1985.
* Visual: Timeline showing milestones.

### ****Slide 5 – 1990s: World Wide Web****

* 1991: Tim Berners-Lee invents WWW.
* Browsers (Mosaic, Netscape) made internet accessible.
* Internet boom → dot-com era.
* Visual: Screenshot of old websites vs modern.

### ****Slide 6 – 2000s to Present****

* Broadband, Wi-Fi, smartphones.
* Social media revolution.
* Cloud computing.
* Visual: Icons (Facebook, YouTube, Cloud).

### ****Slide 7 – The Internet Today****

* Over 5 billion users worldwide.
* 5G networks for speed & IoT.
* Undersea cables connect continents.
* Visual: Map of submarine internet cables.

### ****Slide 8 – How the Internet Works (Simplified)****

* **Step 1:** Your device sends a request.
* **Step 2:** Data travels via ISP → servers.
* **Step 3:** Uses IP addresses & DNS (like phonebook).
* **Step 4:** Data travels in **packets**.
* Visual: Flow diagram (User → ISP → DNS → Server → Back).

### ****Slide 9 – Real-Life Analogy****

* Internet works like a **postal system**:
  + IP Address = house address
  + DNS = directory/phonebook
  + Packets = letters broken into envelopes
  + Routers = post offices
* Visual: Cartoon-style analogy diagram.

### ****Slide 10 – Future of the Internet****

* 5G, 6G & IoT everywhere.
* AI + Internet → smarter apps.
* Space Internet (Starlink).
* Visual: Futuristic city with connected devices.

### ****Slide 11 – Conclusion****

* From 4 computers → 5 billion people.
* Internet is the backbone of modern life.
* “Understanding its past helps us shape its future.”
* Visual: Inspiring internet quote or futuristic network globe.

### ****Slide 12 – Q&A****

* “Any Questions?”
* Visual: Fun illustration of Wi-Fi or question marks.