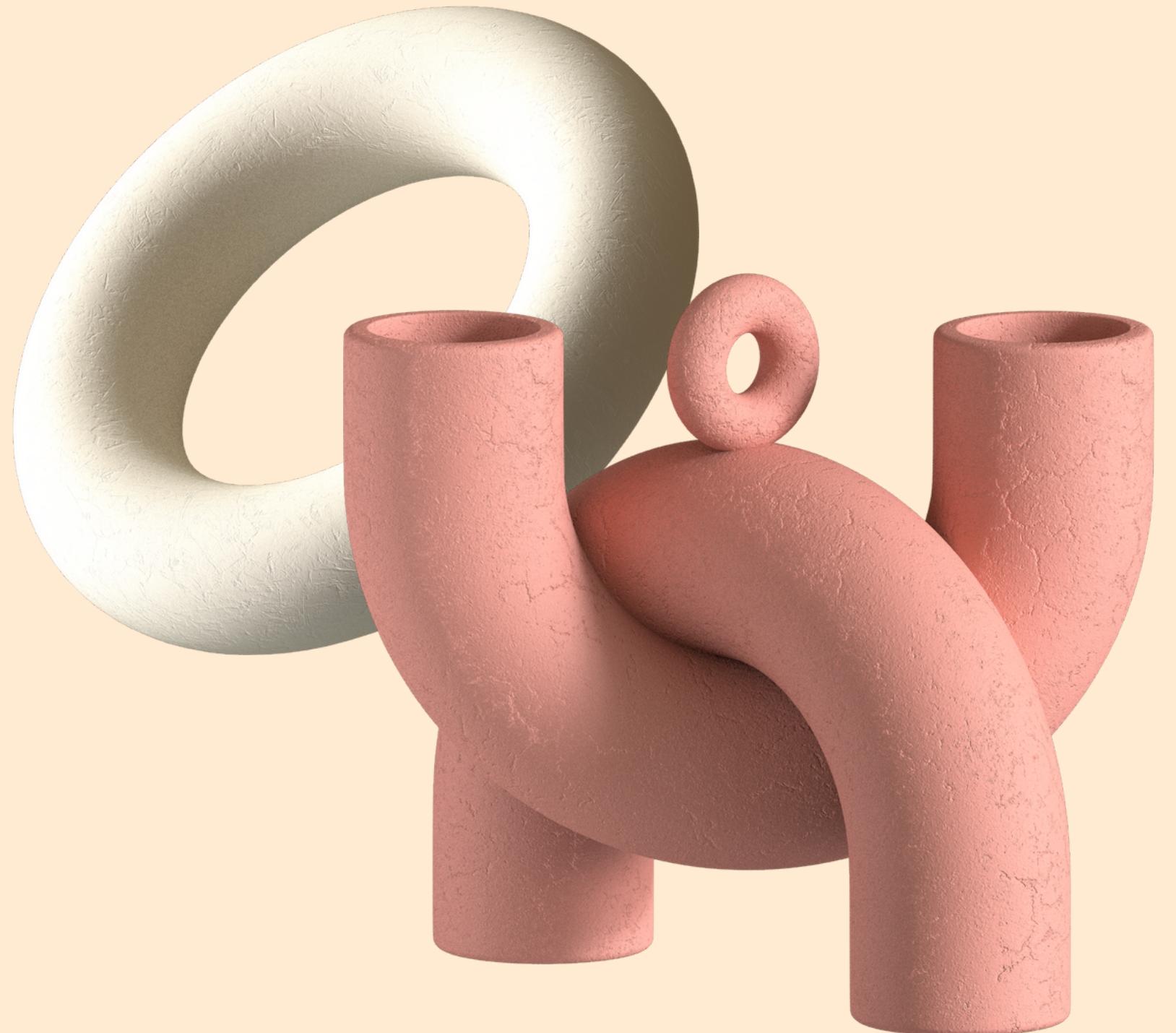


Internship Report Summary

Brought to you by Aaditya Sharma

2020BECE004



About the Organization

National Informatics Centre (NIC) under the Ministry of Electronics and Information Technology (MeitY) is the technology partner of the Government of India



1976

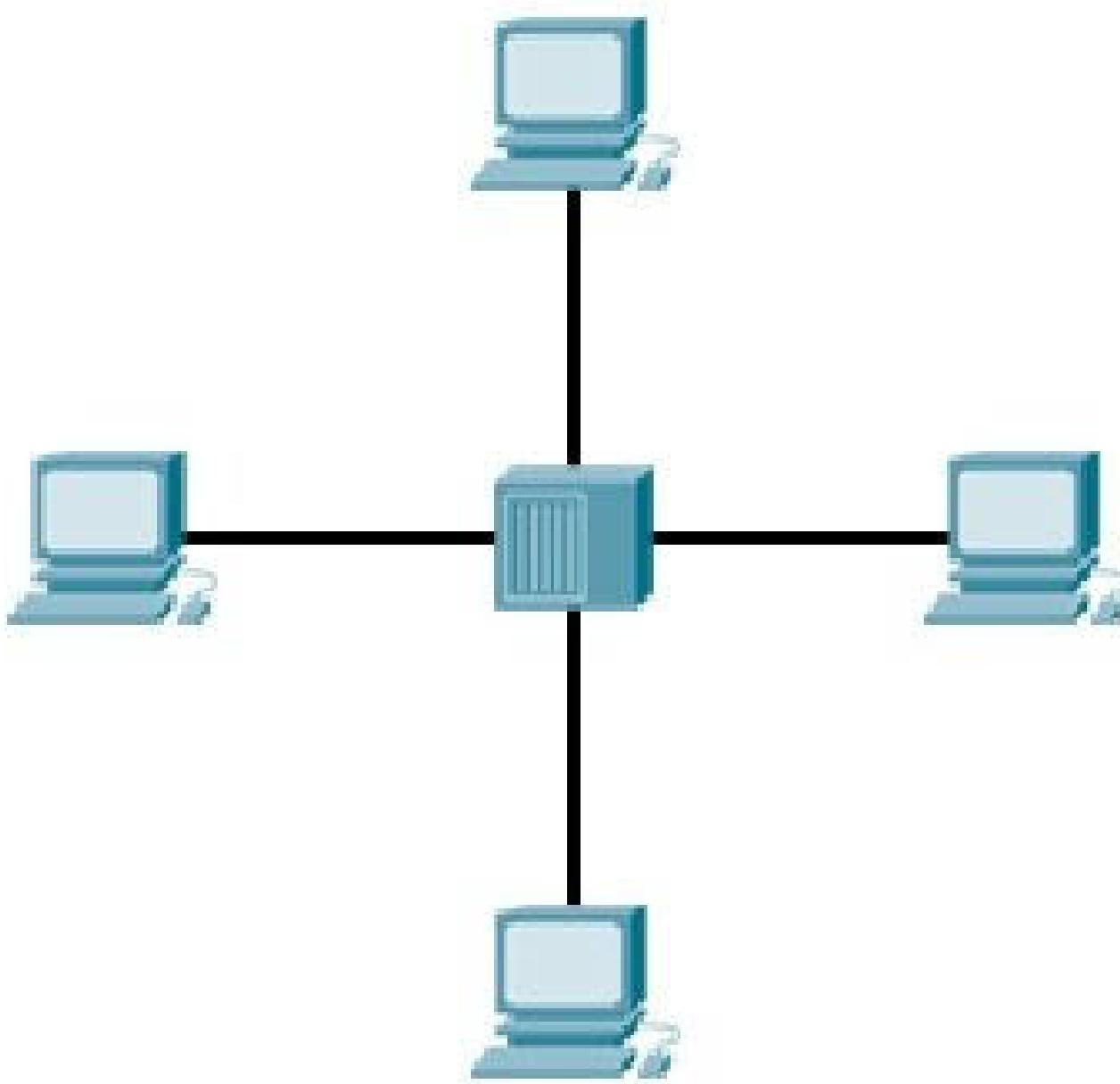
Established with an objective to provide technology driven solution to central and state government.

2023

Done an internship in Networking as a part of industrial training.

Networking 101

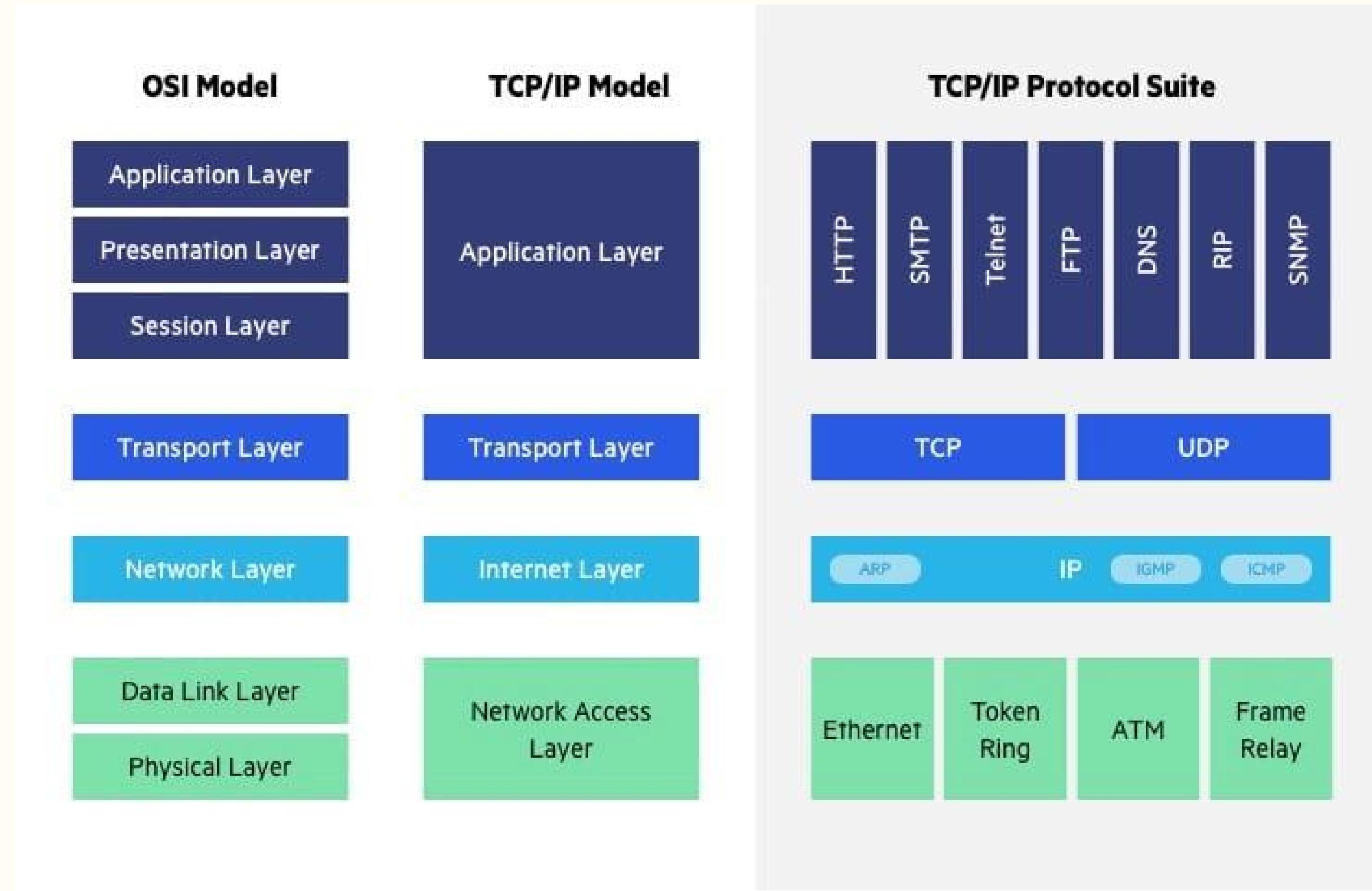
Networking is the practice of transporting and exchanging data between devices over a shared medium in an information system.



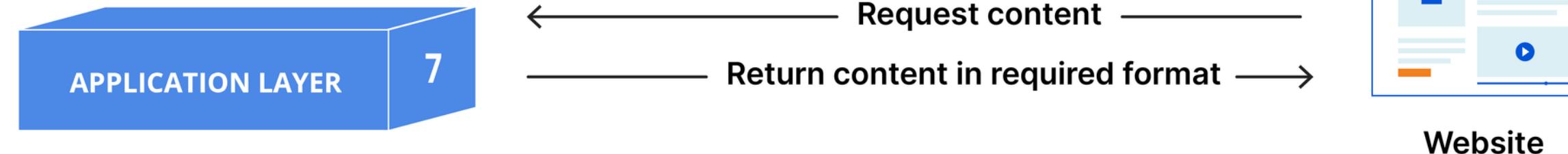
©<https://study-ccna.com/what-is-a-network/>



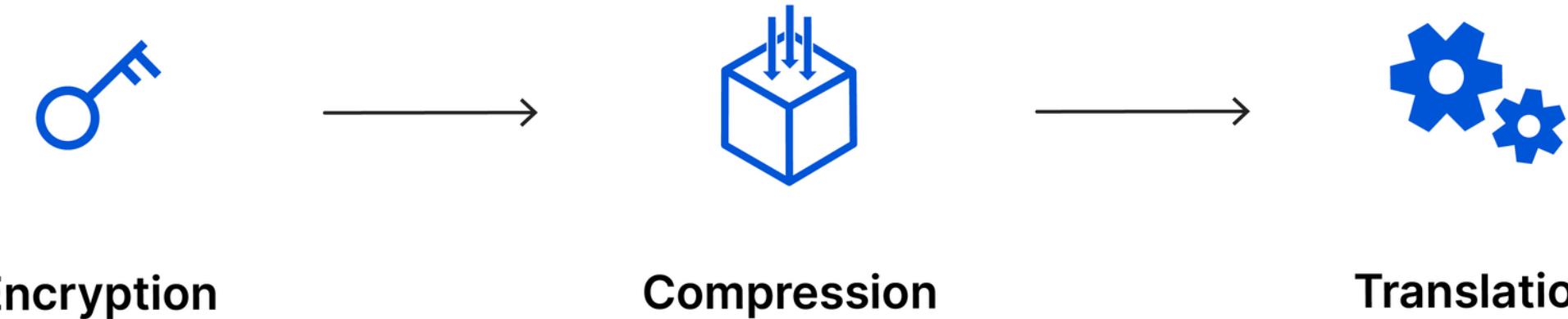
Models in Networking



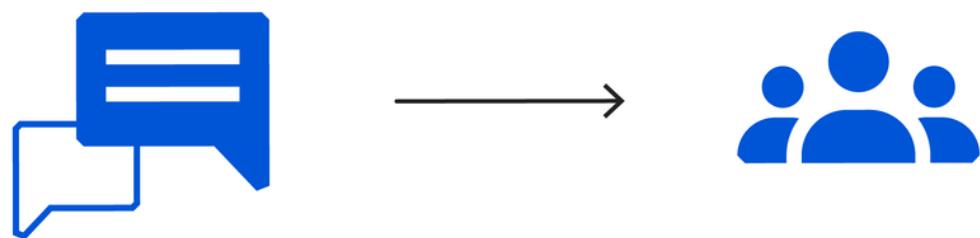
Application Layer



The Presentation Layer



The Session Layer



Session of communication

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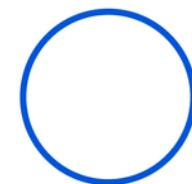
Transport Layer



Segmentation

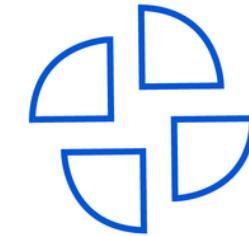


Transport



Reassembly

The Network Layer



Packets Creation



Transport



Packets Assembly

©Cloudflare.com

The Data Link Layer



Frame Creation

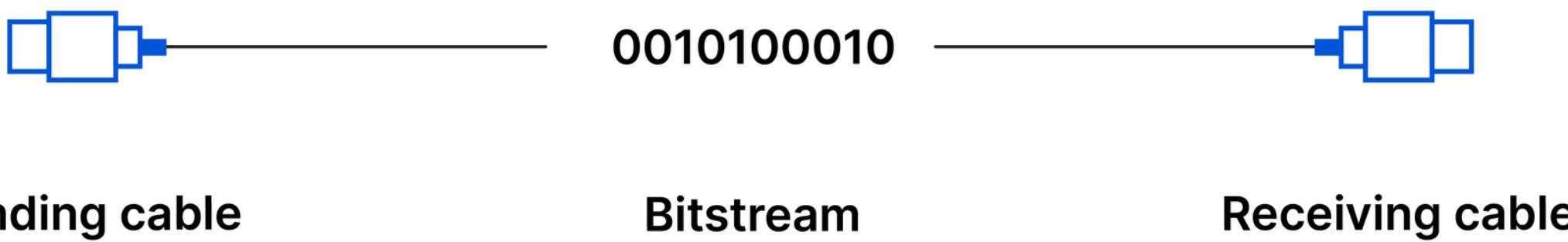


Transport



Transfer frames between net

The Physical Layer



Crimping of Cat6 Wire



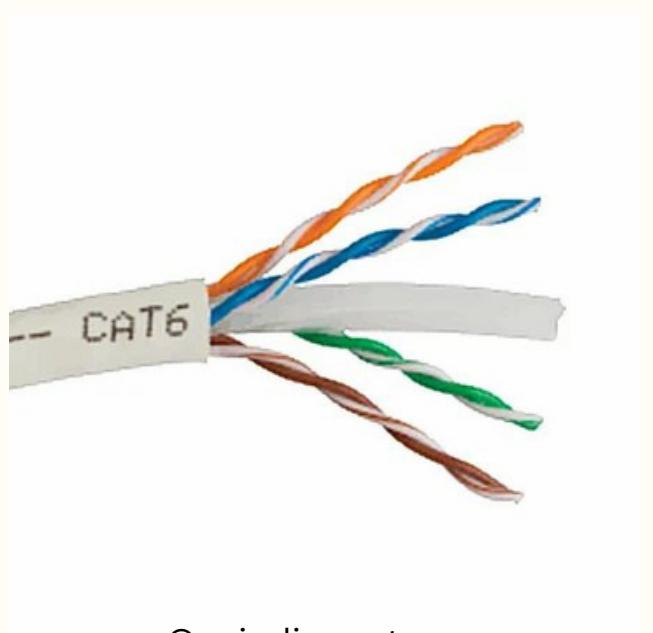
©Amazon.in

A Crimping Tool



©Amazon.in

A RJ45 Jack



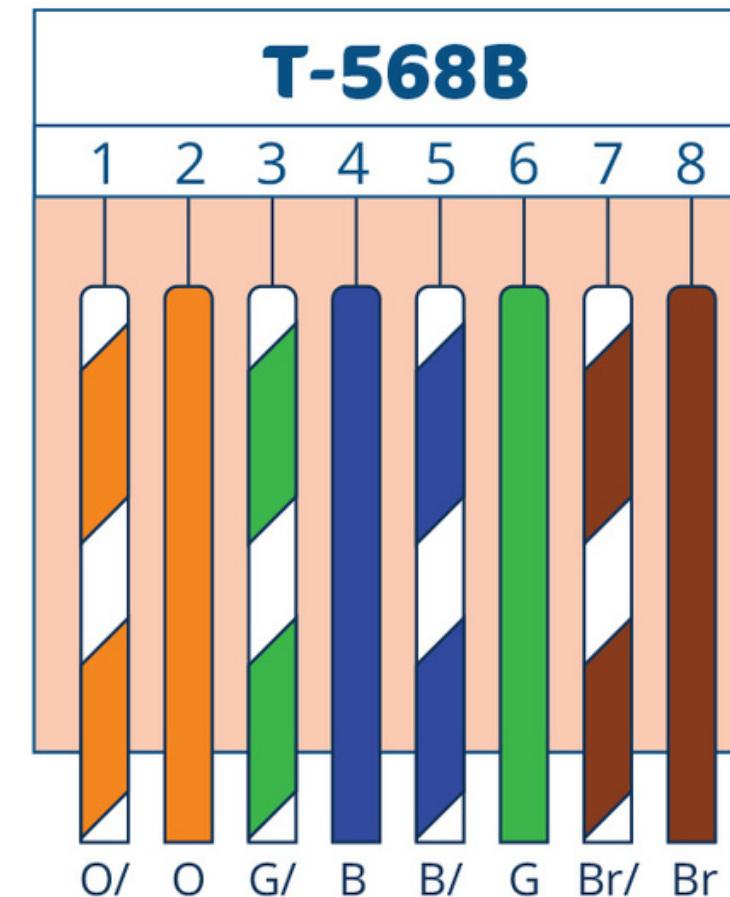
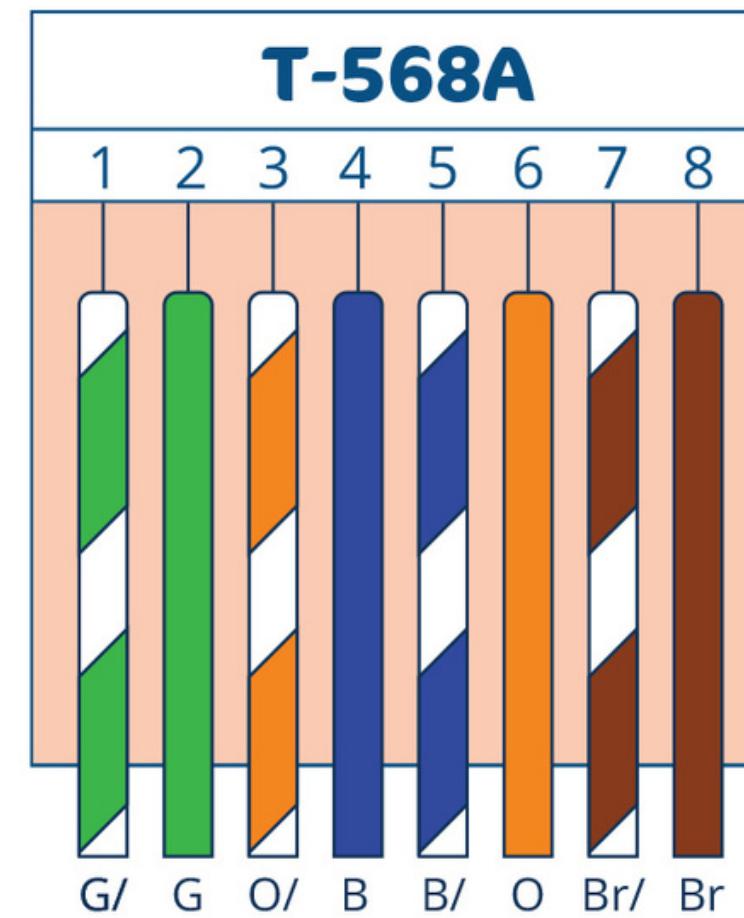
©m.indiamart.com

A Cat 6 cable



© Flipkart.in

Ethernet Cable

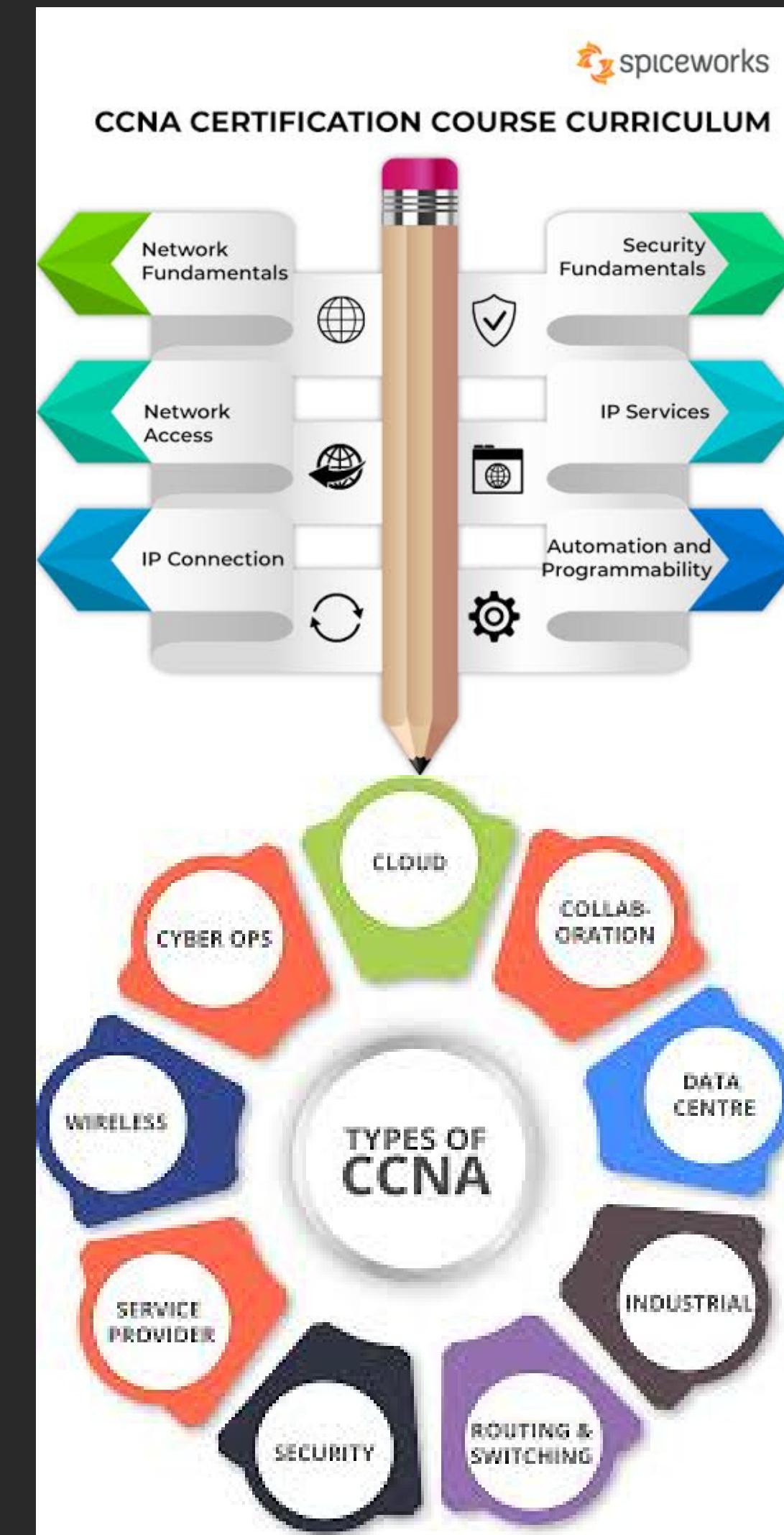


Scope of Networking

Work as a Network Engineer

First step for being a Cybersecurity Engineer.

CCNA Certified Exam
OWASP Top 10 Vulnerability



Thank You

