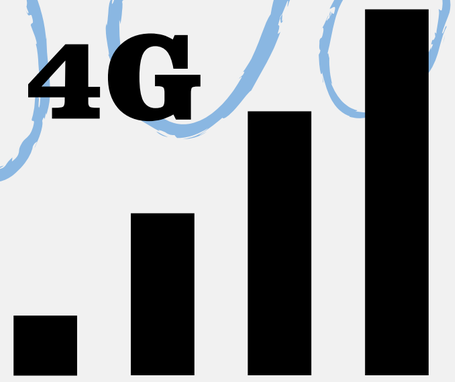

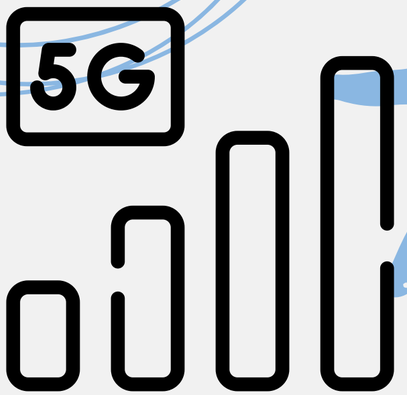

4G VS 5G WHAT'S THE REAL DIFFERENCE?

Ashriyah Khandelwal
BTech ECE Student

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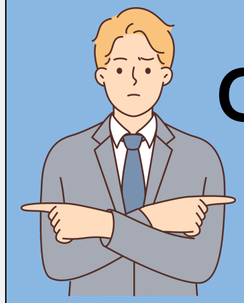
APPLICATIONS OF 4G

APPLICATIONS OF 5G



CHALLENGES WITH 5G

CONCLUSION

Features of 4G :

BANDWIDTH	LIMITED
NETWORK DENSITY	FEWER DEVICES SUPPORTED
ARCHITECTURE	CENTRALIZED
ENERGY EFFICIENCY	MODRATE
USE CASES	STREAMING, MOBILE BROWSING

Features of 5G :

BANDWIDTH	ULTRA-WIDE
NETWORK DENSITY	MASSIVE DEVICE SUPPORT
ARCHITECTURE	DISTRIBUTED (EDGE COMPUTING)
ENERGY EFFICIENCY	HIGH (OPTIMIZED FOR IoT)
USE CASES	AR/VR, SMART CITIES, AUTONOMOUS VEHICLES

SPEED AND LATENCY

FEATURES

	4G	5G
SPEED	UP TO 1 GBPS	UP TO 10 GBPS
LATENCY	50 milliseconds	1 milliseconds
DOWNLOAD TIME	7 minutes	10 seconds

APPLICATIONS OF 4G

- MOBILE INTERNET BROWSING
- VIDEO STREAMING
- ONLINE GAMING
- NAVIGATION AND MAPS
- MOBILE BANKING AND PAYMENTS
- VoLTE (VOICE over LTE)






APPLICATIONS OF 5G

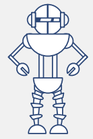
- SMART CITIES & IoT DEVICES

- AUTONOMOUS VEHICLES

- REMOTE SURGERY & TELEMEDICINE

- AUGMENTED/VIRTUAL REALITY (AR/VR)

- INDUSTRIAL AUTOMATION



- ULTRA-HD & 8K STREAMING

CONCLUSION

4G vs 5G: FINAL THOUGHTS

4G REVOLUTIONALZIED MOBILE CONNECTIVITY- **FAST, RELIABLE AND WIDESPREAD.**

5G TAKES IT FURTHER- ENAVLING **REAL-TIME, HIGH SPEED AND SMART COMMUNICATION.**

WHILE 4G IS STILL HIGHLY RELEVANT, 5G IS LAYING THE FOUNDATION FOR THE **FUTURE OF INNOVATION.**

Thank you very much!

ASHRIYAH KHANDELWAL