

Comparative Analysis: Cloud vs Fog vs Edge Computing Models

COMPARATIVE ANALYSIS OF COMPUTING MODELS				
Parameters	Cloud Computing	Fog Computing	Edge Computing	
Latency	★★☆☆☆	★★★☆☆	★★★★★	
Processing Power	★★★★★	★★★★☆	★★★★☆	
Storage Capacity	★★★★★	★★★★☆	★★☆☆☆	
Scalability	★★★★★	★★★★☆	★★★★☆	
Bandwidth Usage	★★☆☆☆	★★★☆☆	★★★★★	
Energy Efficiency	★★★☆☆	★★★★☆	★★★★★	
Security & Privacy	★★★☆☆	★★★★☆	★★★★★	
Cost Efficiency	★★★★☆	★★★☆☆	★★★★☆	
Reliability	★★★★★		★★★★☆	
Real-time Capability	★★☆☆☆	★★★★★	★★★★★	★★★★★
Summary: Cloud is best for storage and processing, but suffers from latency. Edge provides ultra-low latency and privacy but has limited resources. Fog offers a middle ground.				

- USE CASE RECOMMENDATIONS
- CLOUD COMPUTING:
 - Big Data Analytics
 - Enterprise Applications
 - Global Web Services
 - Backup & Storage
 - ML Model Training
- FOG COMPUTING:
 - Smart Cities
 - Industrial IoT
 - Video Analytics
 - Content Delivery
 - Regional Processing
- EDGE COMPUTING:
 - Autonomous Vehicles
 - AR/VR Applications
 - Industrial Control
 - Real-time Gaming
 - Healthcare Monitoring
 - Drone Operations