Multimodal Fusion

Combines representations from multiple modalities for unified understanding

⚡ Early Fusion
Combine raw features before processing

🔀 Intermediate Fusion
Combine learned representations at hidden layers

🎯 Late Fusion
Combine decisions from separate modality models

Advanced Techniques

👁 Attention Mechanisms: Focus on relevant modalities

🔄 Cross-modal Learning: Use one modality to improve another

🎬 Applications

Video Understanding   Visual QA   Multimodal Sentiment Analysis

✨ **Improves robustness and performance over single-modality approaches**