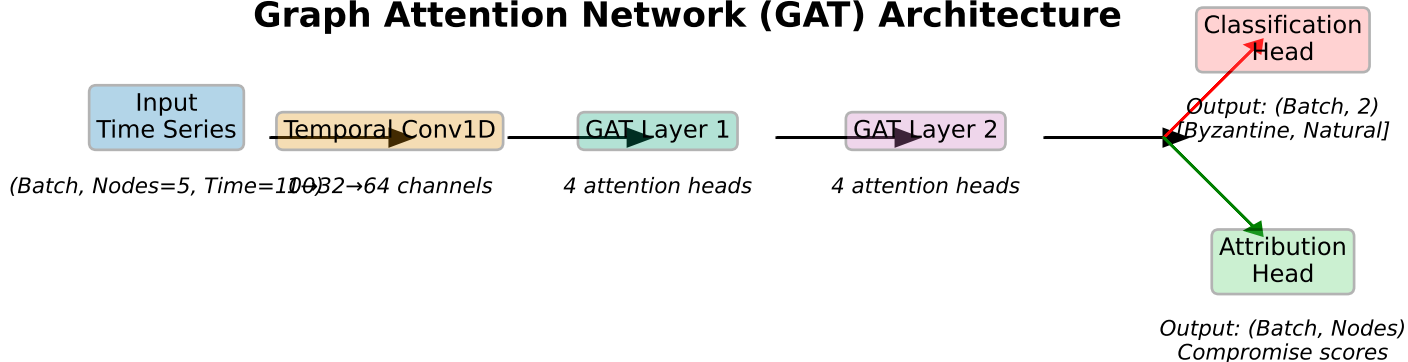


# Graph Attention Network (GAT) Architecture



## Complexity Analysis

Network Size (N)	GAT Ops	LSTM Ops	Speedup
N= 5	15	25	1.7x
N= 20	210	400	1.9x
N=100	5050	10000	2.0x

- ✓ Temporal + Spatial learning
- ✓  $O(N+E)$  complexity vs  $O(N^2)$ 
  - ✓ CPU-only inference
  - ✓ Edge device ready