

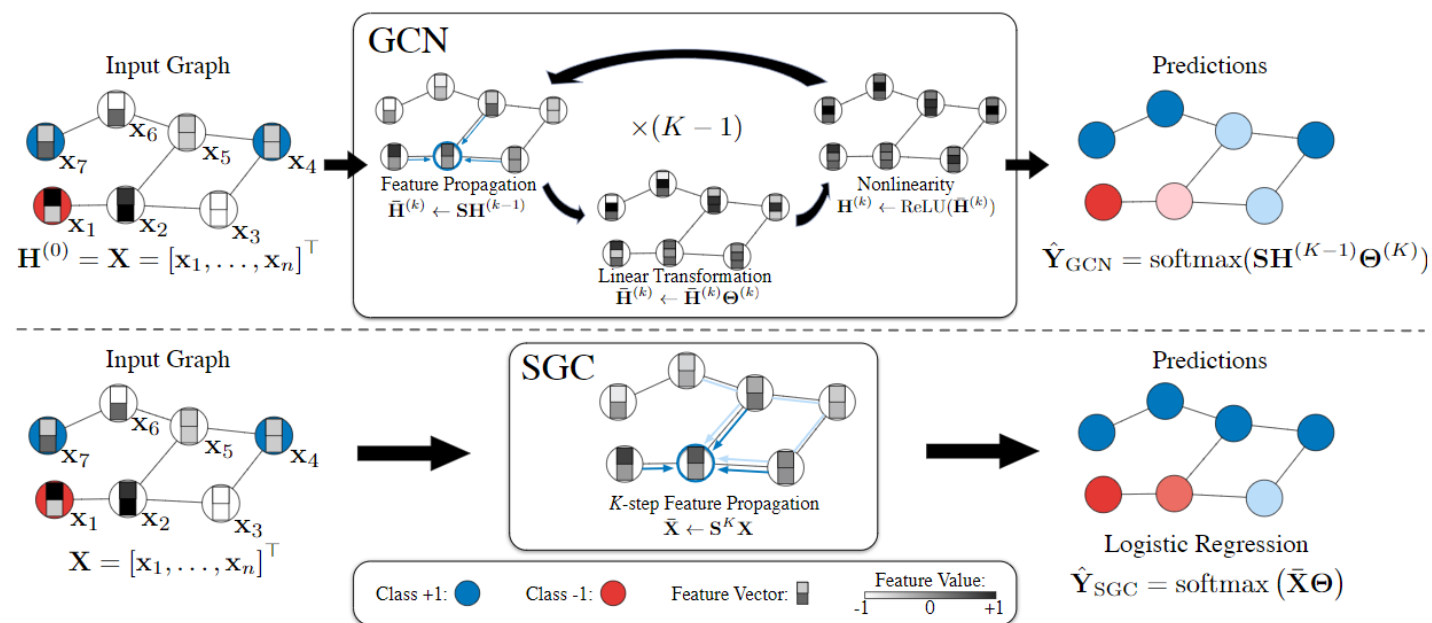
Simplifying Graph Convolution Networks

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Simple Graph Convolution (SGC)

- In GCN, nonlinearity and its complex and complicated computation may not be needed
- SGC removes nonlinearity and collapses weight matrices between consecutive layers from GCN



Summary

- The performance of SGC is comparable to that of GCN
- SGC corresponds to a fixed low-pass filter
- SGC scales to larger datasets and training time is faster than GCN