Team Recommendation via Graph Neural Networks
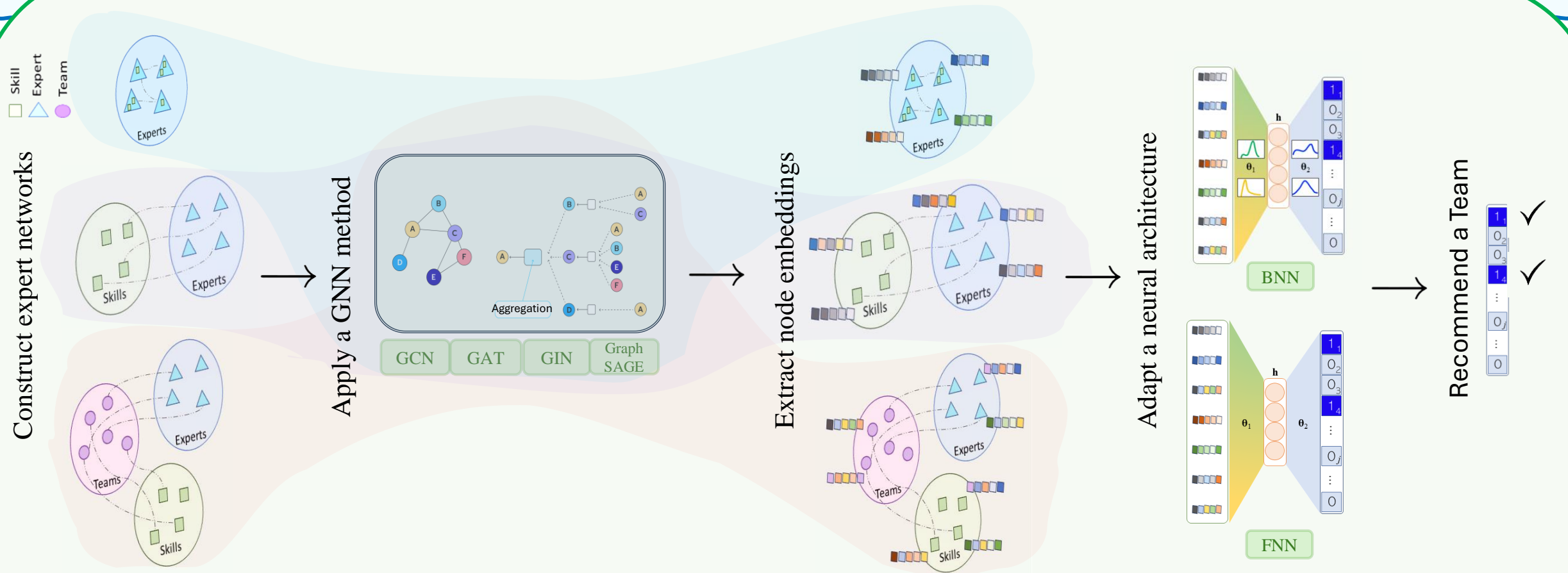
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Construct expert networks → Apply a GNN method

GCN GAT GIN Graph SAGE

Aggregation

→ Extract node embeddings → Adapt a neural architecture

BNN

FNN

→ Recommend a Team

References

[1] Arman Dashti, et al "OpeNTF: A Benchmark Library for Neural Team Formation" CIKM 2022

[2] Radin Hamidi Rad, et al "Retrieving Skill-Based Teams from Collaboration Networks" SIGIR 2021

[3] William L. Hamilton, et al "Inductive Representation Learning on Large Graphs" NIPS 2017

[4] Thomas N. Kipf, et al "Semi-supervised classification with graph convolutional networks" ICLR 2017

Links

Github: https://github.com/fani-lab/OpeNTF/tree/gnn