

Search Task:

The task is to choose the best GNN architecture on a given dataset.

Search Space:

A GNN architecture is defined as follows:

There are 9 operations that can be selected:

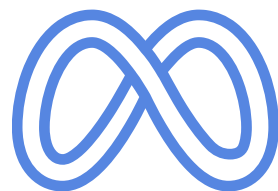
GAT, GCN, GIN, GraphSAGE.....

Search Strategy:

At the beginning, use **the exploration strategy** to explore the operations.....

When a certain amount of evaluated architectures are available, use **the exploitation strategy** to

GNAS Prompt



LLMs



Model:

Model1 : [FC,GAT,GCN,k-GNN]

Model2 : [GCN,GIN,k-GNN,ARMA]

Model3 : [GCN,Cheb,SAGE,GAT]

.....

GNN Models

Feedback:

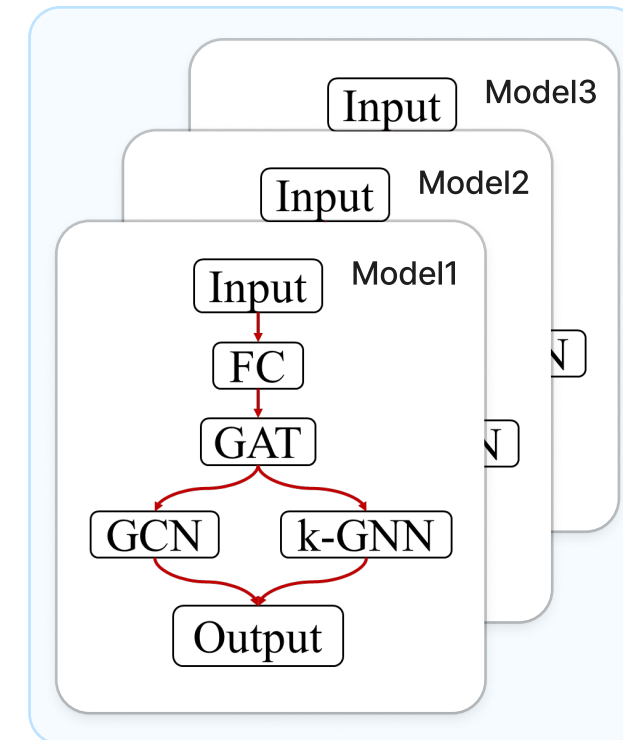
Model1 gives an accuracy of 80.93%

Model2 gives an accuracy of 81.07%

Model3 gives an accuracy of 79.73%

.....

Feedback Prompt



Model Evaluation