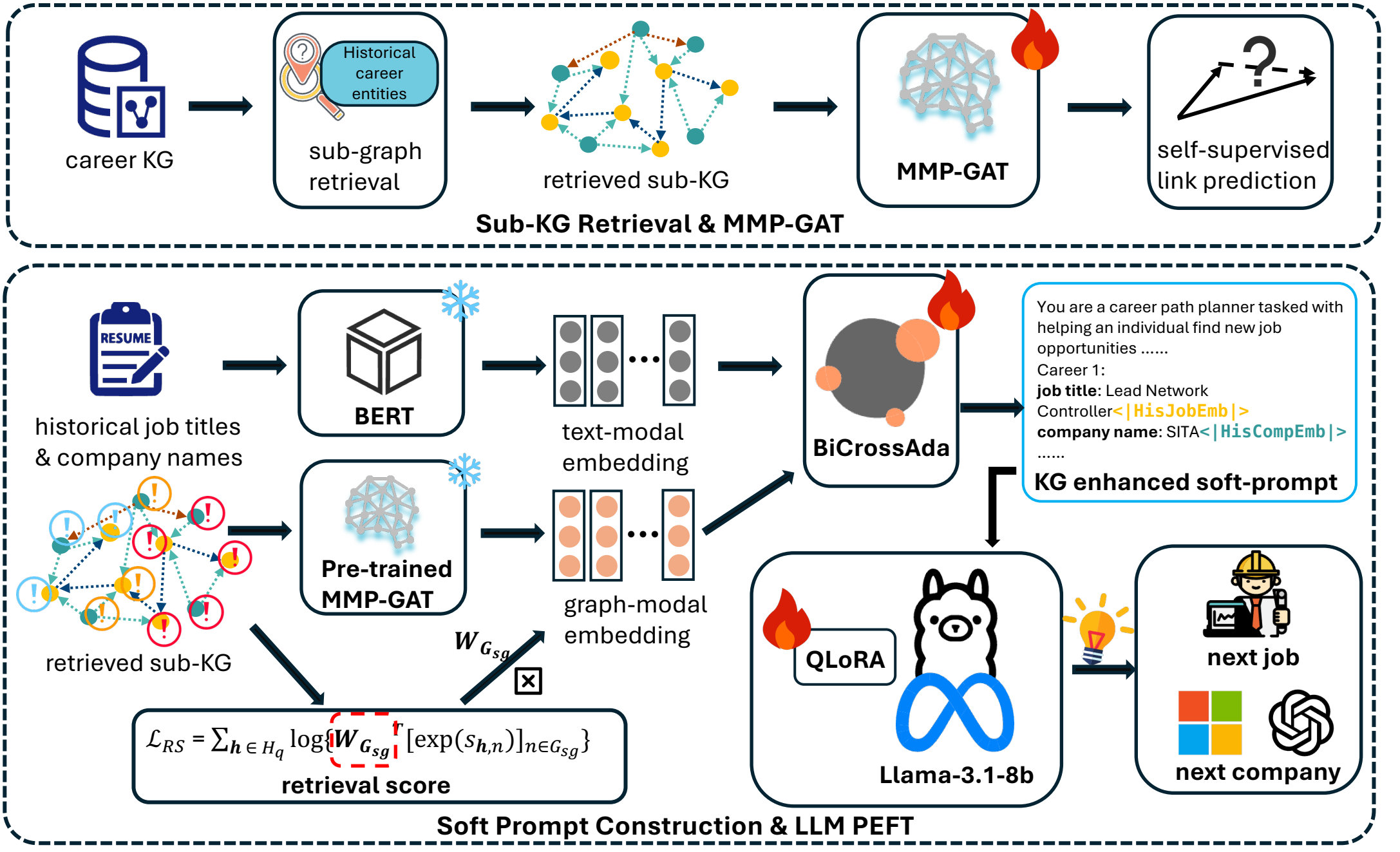
career KG
Historical career entities
sub-graph retrieval
retrieved sub-KG
MMP-GAT
self-supervised link prediction
Sub-KG Retrieval & MMP-GAT
RESUME
historical job titles & company names
BERT
text-modal embedding
BiCrossAda
You are a career path planner tasked with helping an individual find new job opportunities .....
Career 1:
job title: Lead Network Controller<|HisJobEmb|>
company name: SITA<|HisCompEmb|>
.....
KG enhanced soft-prompt
retrieved sub-KG
Pre-trained MMP-GAT
graph-modal embedding
$W_{G_{sg}}$
$\mathcal{L}_{RS} = \sum_{h \in H_q} \log\{W_{G_{sg}}^{T}[\exp(s_{h,n})]_{n \in G_{sg}}\}$
retrieval score
QLoRA
Llama-3.1-8b
next job
next company
Soft Prompt Construction & LLM PEFT