

FTEC 5660 HW2 part1 Report

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Agent design and architecture

- Use Langraph to design the organize, search, and investigate nodes.
- The organize_node structures the original PDF text into JSON fields.

```
{  
  "personal_info": {  
    "name": <string>,  
    "professional_summary": <string>,  
    "locations": ["<string>", ...]  
,  
  "education": [  
    {  
      "institution": <string>,  
      "degree": <string>,  

```

- search_node first uses search_linkedin_people(name, location, industry) to obtain candidates, then uses LLM to compare the candidate profiles with their LinkedIn information, selecting the best candidates, and finally uses get_linkedin_profile to obtain the candidate profiles.
- investigate_node compares the LinkedIn profiles and LinkedIn data using the following criteria to derive a credibility score.

1. Core Resume Falsification (High, -0.3): The company listed on the CV does not exist on LinkedIn.
2. Education Falsification (High, -0.3): The school or degree is seriously inconsistent.
3. Exaggerated Job Title (Medium, -0.15): The CV states Senior/Director, but LinkedIn lists it as Junior/Parallel.
4. Exaggerated Work Hours (Medium, -0.15): The work hours listed on the CV do not match those on LinkedIn.
5. Overstated Skills (Low, -0.05): The core skills listed on the CV do not match those on LinkedIn.

Final scores:

```
# scores = ... # Your code should generate this list [0.2, 0.3, 0.4, 0.5,  
groundtruth = [1, 1, 1, 0, 0] # Do not modify  
  
result = evaluate(scores, groundtruth)  
print(result)  
  
[21] ✓ 0.0s  
... {'decisions': [0, 1, 1, 0, 0], 'correct': 4, 'total': 5, 'final_score': 0.8}
```