

Objective

Develop an interactive Al-powered chat system that helps users optimize their LinkedIn profiles, analyze job fit, and provide career guidance. The system should intelligently process LinkedIn profile data, suggest improvements, and generate job-specific recommendations. The interaction should be fully chat-based with memory capabilities to retain context across sessions.

Key Functionalities

1. Interactive Chat Interface

- There should be input for linkedin profile url and then a chat interface where the bot communicates the feedback and the improvement point. (you can use apify's linkedin scraper for this comes with free credits)
- The assistant should guide them through profile optimization, career recommendations, and job fit analysis.

2. Profile Optimization, Job Fit Analysis & Career Guidance

- Profile Analysis: Extract and evaluate LinkedIn profile sections (About, Experience, Skills, etc.), identifying gaps and inconsistencies.
- Job Fit Analysis: Users can provide job roles that they want to apply for, and the system should compare an industry standard job description for the role with the user's profile, generate a match score, and suggest improvements.
- Content Enhancement: Generate rewritten versions of profile sections for better alignment with industry best practices and specific job descriptions.
- Career Counseling & Skill Gap Analysis: Identify missing skills needed for target roles and suggest learning resources or career paths.

3. Memory System for Personalized Experience

- The app should maintain session-based and persistent memory to track user interactions, profile state, and career goals.(You can use LangGraph's checkpointers, Memory saver and more)
- Ensure seamless context retention across multiple user queries.



Technical Expectations

- Strong **prompt engineering** skills to refine AI responses.
- Implement a **multi-agent system** (via LangGraph or Langchain) to handle profile analysis, content generation, and job matching.
- An effective memory system for user context tracking.

Submission Requirements

1. Hosted Application:

- o Can be built using any framework (Prefered Streamlit, FastAPI, LangGraph).
- o Should be accessible via a public URL.
- o Can use any external tool available.

2. GitHub Repository:

- Must include complete source code, setup instructions, and a well-documented README.
- o Include requirements.txt or equivalent for dependencies.

3. Documentation:

- o Clear code comments and explanation of architecture.
- o A separate document outlining approach, challenges, and solutions.