

# Assignment: AI Career Advisor with Dynamic Persona Routing & Planning Workflow

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## Objective

Design an AI Career Advisor system that:

1. Dynamically routes a user’s query to a specialized **career persona** (e.g., Tech, Marketing, or Finance)
  2. Performs a two-step planning workflow:
    - Step 1: Generates a **career roadmap** (years, skills, degrees)
    - Step 2: Crafts a **motivational message** tailored to the user's field and tone
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## Use-Case Theme: Career Planning Based on User Input

Imagine a user types:

“I want to become a cloud architect in the next 3 years. I'm coming from a networking background.”

Your app should:



- Route to the **Tech Advisor Chain**
  - Generate a structured plan (Step 1)
  - Then generate a motivational or encouraging summary (Step 2)
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## Assignment Components

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### Step 1: MultiPromptChain (Router)

 Define advisor personas:

-  **Tech Career Advisor**
-  **Marketing Career Advisor**
-  **Finance Career Advisor**

Each with a different tone and prompt style:

- Tech advisor might be crisp, skill-focused
  - Marketing advisor might focus on creativity and networking
  - Finance advisor might include certifications and regulatory steps
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## ✔ Step 2: SequentialChain (2 Steps)

### 1. Career Plan Generator

Extracts:

- Title
- Time required
- Suggested skills
- Certifications
- Learning roadmap

### 2. Encouragement Generator

Uses output of Step 1 to write a personalized encouragement:

"You're on the right path toward becoming a cloud architect. Focus on AWS, networking, and DevOps, and stay committed for 3 years — you'll get there!"