**Chain of thought prompt**

input\_prompt = f''' Let's break down the process of providing recommendations for the student step by step. Step 1: Summarize the student's profile. - Name: {user\_name} - Age: {age} - Gender: {gender} - Date of Birth: {date\_of\_birth} - Email: {email} - Phone Number: {ph\_no} - Student ID: {student\_id} - Courses Taken: {', '.join(courses)} - Course Duration: {course\_duration} weeks - Modules Completed: {modules\_completed}% - Modules Due: {modules\_due}% - Attendance: {attendance}% - Resume Building: {resume\_building} - Projects Completed: {projects\_completed}% - Projects Due: {projects\_due}% - Projects Viva Cleared: {projects\_viva}% - Research Papers Completed: {research\_papers\_completed}% - Research Papers Due: {research\_papers\_due}% - Assignments Completed: {assignments\_completed}% - Assignments Due: {assignments\_due}% - Quizzes Completed: {quizzes\_completed}% - Quizzes Due: {quizzes\_due}% - Interview Preparedness: {interview\_preparedness} - Interview Preparedness Due: {interview\_preparedness\_due}%

Step 2: Identify areas needing improvement. - Modules Due: {modules\_due}% - Projects Due: {projects\_due}% - Research Papers Due: {research\_papers\_due}% - Assignments Due: {assignments\_due}% - Quizzes Due: {quizzes\_due}% - Interview Preparedness Due: {interview\_preparedness\_due}%

Step 3: Provide specific recommendations for each area. 1. How to complete due modules: 2. How to complete due projects: 3. How to complete due research papers: 4. How to complete due assignments: 5. How to complete due quizzes: 6. How to improve interview preparedness:

Step 4: Suggest relevant 360digiTMG courses and additional resources. - Handy study materials: Relevant articles, video lectures, or interactive modules to address specific learning needs. - Engaging Discussions: Connect with peers and instructors in relevant forum discussions to clarify doubts and share perspectives. Direct them to the discussion forum of AISPRY website LINK: https://aispry.com/forum - Project-focused Workshops or Mentorship (if applicable): Get hands-on guidance if applying concepts to practical projects is a challenge. Suggest talking to the team leader. - Career Support (if applicable): Learn how to translate your learnings into a strong resume with resume mapping sessions. If the resume building session is not attended then suggest this link: https://360digitmg.com/resume-mapper - If any doubts then suggest a doubt clarification session.

Step 5: Evaluate if the student meets the threshold requirements and suggest suitable data science companies in India if applicable.

Step 6: Check for completion of mock interviews and industry-level projects. - If resume building and interview preparedness are completed, ask if you have completed mock interviews (total 4) or not. If projects are completed, ask if your projects are industry level or not. Provide a yes or no button for user input. If the user puts option 'No', suggest taking mock interviews and doing industry-level projects. If the user puts 'Yes', tell them they have completed everything. Based on the above steps, generate a detailed and structured set of recommendations. '''

**Least to most prompt**

# Least prompt input\_prompt = f''' Student Profile: Name: {user\_name} Age: {age} Gender: {gender} Courses Taken: {', '.join(courses)} Modules Completed: {modules\_completed}% Attendance: {attendance}% Resume Building: {resume\_building} Projects Completed: {projects\_completed}% Provide specific recommendations for improving the student's job placement chances. '''

recommendation\_text = gemini\_response(input\_prompt) if not recommendation\_text:

# More context prompt input\_prompt = f''' Student Profile: Name: {user\_name} Age: {age} Gender: {gender} Courses Taken: {', '.join(courses)} Modules Completed: {modules\_completed}% Modules Due: {modules\_due}% Attendance: {attendance}% Resume Building: {resume\_building} Projects Completed: {projects\_completed}% Projects Due: {projects\_due}% Research Papers Completed: {research\_papers\_completed}% Research Papers Due: {research\_papers\_due}% Assignments Completed: {assignments\_completed}% Assignments Due: {assignments\_due}% Quizzes Completed: {quizzes\_completed}% Quizzes Due: {quizzes\_due}% Interview Preparedness: {interview\_preparedness} Provide detailed recommendations for improving the student's job placement chances and areas of improvement. '''

recommendation\_text = gemini\_response(input\_prompt) if not recommendation\_text:

# Most context prompt input\_prompt = f''' Student Profile: Name: {user\_name} Age: {age} Gender: {gender} Date of Birth: {date\_of\_birth} Email: {email} Phone Number: {ph\_no} Student ID: {student\_id} Courses Taken: {', '.join(courses)} Course Duration: {course\_duration} weeks Modules Completed: {modules\_completed}% Modules Due: {modules\_due}% Attendance: {attendance}% Resume Building: {resume\_building} Projects Completed: {projects\_completed}% Projects Due: {projects\_due}% Projects Viva Cleared: {projects\_viva}% Research Papers Completed: {research\_papers\_completed}% Research Papers Due: {research\_papers\_due}% Assignments Completed: {assignments\_completed}% Assignments Due: {assignments\_due}% Quizzes Completed: {quizzes\_completed}% Quizzes Due: {quizzes\_due}% Interview Preparedness: {interview\_preparedness} Interview Preparedness Due: {interview\_preparedness\_due}% Provide detailed and specific recommendations for improving the student's job placement chances and areas of improvement, including: 1. How to complete due modules. 2. How to complete due projects. 3. How to complete due research papers. 4. How to complete due assignments. 5. How to complete due quizzes. 6. How to improve interview preparedness. Provide recommendations on how to complete them by suggesting relevant 360digiTMG courses. Additionally, provide guidance on maintaining a balance between these areas to ensure holistic progress. '''

**Tree of thought**

# Step 1: Generate initial thoughts input\_prompt\_initial = f''' Student Profile: Name: {user\_name} Age: {age} Gender: {gender} Courses Taken: {', '.join(courses)} Modules Completed: {modules\_completed}% Attendance: {attendance}% Resume Building: {resume\_building} Projects Completed: {projects\_completed}% Provide specific recommendations for improving the student's job placement chances. '''

initial\_responses = [gemini\_response(input\_prompt\_initial) for \_ in range(3)]

# Step 2: Evaluate initial thoughts best\_response = max(initial\_responses, key=len) # Simple evaluation: choose the longest response

# Step 3: Expand on the best thought input\_prompt\_expanded = f''' Student Profile: Name: {user\_name} Age: {age} Gender: {gender} Date of Birth: {date\_of\_birth} Email: {email} Phone Number: {ph\_no} Student ID: {student\_id} Courses Taken: {', '.join(courses)} Course Duration: {course\_duration} weeks Modules Completed: {modules\_completed}% Modules Due: {modules\_due}% Attendance: {attendance}% Resume Building: {resume\_building} Projects Completed: {projects\_completed}% Projects Due: {projects\_due}% Projects Viva Cleared: {projects\_viva}% Research Papers Completed: {research\_papers\_completed}% Research Papers Due: {research\_papers\_due}% Assignments Completed: {assignments\_completed}% Assignments Due: {assignments\_due}% Quizzes Completed: {quizzes\_completed}% Quizzes Due: {quizzes\_due}% Interview Preparedness: {interview\_preparedness} Interview Preparedness Due: {interview\_preparedness\_due}% Provide detailed and specific recommendations for improving the student's job placement chances and areas of improvement, including: 1. How to complete due modules. 2. How to complete due projects. 3. How to complete due research papers. 4. How to complete due assignments. 5. How to complete due quizzes. 6. How to improve interview preparedness. Provide recommendations on how to complete them by suggesting relevant 360digiTMG courses. Additionally, provide guidance on maintaining a balance between these areas to ensure holistic progress. '''

**Self ask**

# Self-ask prompt input\_prompt = f''' What are your key achievements and skills related to the courses you have enrolled in? How would you describe your progress in completing modules, assignments, and projects? Describe your readiness for job interviews and any specific areas you seek improvement in. '''

recommendation\_text = gemini\_response(input\_prompt) parsed\_recommendations = parse\_recommendation\_text(recommendation\_text)