Primary Target Role: Prompt Engineer

Role Scope: AI-centered roles, specifically "AI Prompt Engineer" positions.

➔ **Keywords:**

1. Prompt Engineer
2. AI Prompt Engineer
3. Prompt Designer
4. Prompt Writer
5. AI Prompt Writer
6. Generative AI Engineer
7. Generative AI Prompt Engineer
8. Language Model Prompting
9. LLM Engineer
10. LLM Prompt Engineer
11. Large Language Model Developer
12. AI Content Optimizer
13. AI Interaction Designer
14. AI Language Model Specialist
15. Conversational AI Designer
16. Conversational AI Specialist
17. AI Prompt Developer
18. Prompt Engineering Specialist
19. Chatbot Prompt Writer

Primary Platform: LinkedIn

➔ **Country-wise breakdown:**

Main Keyword Searched	Location (Country)	Number of Jobs Found
AI Prompt Writer, Prompt Engineer, Generative AI Prompt Engineer, Chatbot Prompt Engineer	USA	424 + 40 + 58 + 24
Prompt Engineer/ AI Prompt	Canada	5 + 61

Engineer, AI Prompt writer		
AI Prompt Writer, AI Prompt Engineer, Prompt Engineer, Generative AI Prompt Engineer	United Kingdom	115 + 55 + 27 + 61
Prompt Engineer, AI Prompt Engineer, AI Prompt writer, Generative AI Prompt Engineer, Chatbot Prompt Engineer	United Arab Emirates	152 + 108 + 42 + 80 + 90
AI Prompt Writer	Germany	48
Prompt Engineer, AI Prompt Engineer, AI Prompt Writer, Chatbot Prompt Engineer, Generative AI Prompt Engineer	India	934 + 834 + 468 + 665 + 638
AI Prompt Writer	China	17
AI Prompt Writer	South Korea	24
Prompt Engineer, AI Prompt Writer	Japan	6 + 21
Prompt Engineer, AI Prompt Engineer, AI Prompt Writer	Singapore	138 + 99 + 51

These are the keywords that these countries showed the most job number responses on LinkedIn; for most of the other keywords, the results were either 0 or less than 5.

➔ Countries I searched but 0 or 1-2 responses found only for all the keywords: Russia, Ukraine, Israel, Sweden, and Denmark.

Data Extraction Methodology:

Extraction Questions:

➔ The following information will be extracted from each job posting:

➔ **Basic Job Information:**

1. Job Title (The exact title of the job posting)

2. Company Name

3. Company Size (if available)

4. Industry/Sector

5. Location Type (Whether the job is remote, on-site, or hybrid)

6. Location (City, State, Country)

7. Date Posted: When the job posting was originally posted

8. Employment Type (e.g., Full-time, Part-time, Contract, Internship)

9. Salary Range (if provided)

10. Application Link: The direct URL to the job application page (If we need it for any analysis purpose later on the next steps)

➔ **Technical Skills & Competencies**

1. Required Skills (The essential skills and qualifications mentioned)

2. Preferred Skills (Any preferred or desirable skills mentioned)

Examples:

☐ Programming Languages (Python, JavaScript, etc.)

☐ AI/ML Frameworks (TensorFlow, PyTorch, etc.)

☐ LLM Platforms (OpenAI, Anthropic, Google, etc.)

☐ Prompt Engineering Tools (LangChain, etc.)

☐ Cloud Platforms (AWS, Azure, GCP)

☐ Data Analysis Tools (SQL, pandas, etc.)

➔ **Domain Knowledge**

1. AI/ML Knowledge Areas (NLP, Computer Vision, etc.)

2. Industry Domain Expertise (Healthcare, Finance, etc.)

3. Regulatory Knowledge (AI Ethics, Compliance)

➔ **Soft Skills**

1. Communication Skills

2. Problem-Solving

3. Collaboration/Teamwork

4. Project Management

5. Research Skills

➔ **Educational Requirements**

1. Degree Level Required (Bachelor's, Master's, PhD)

2. Preferred Fields of Study

3. Years of Experience Required

➔ **Job Responsibilities**

1. Primary/Key Responsibilities (The main responsibilities listed for this role)

2. Collaboration Requirements (teams they work with)

➔ **Benefits**

1. Highlighted Benefits

2. Growth Opportunities

Platform for Extraction: Qualtrics

➔ **LLM Prompt:**

You will be given the full text of a job advertisement. Your task is to extract detailed job-related information. Your output **must be in valid JSON format** and conform exactly to the schema below. For any field where the information is **not explicitly** stated in the job ad, return the value as 'null'. Do not infer or make up information. Use the raw text only.

Extract the following fields:

Basic Job Information

1. job_title (string): The exact title of the job posting.
2. company_name (string): The company offering the position.
3. company_size (string): Approximate size of the company, e.g., "51–200 employees".
4. company_industry (string): The industry or sector of the company, if mentioned.
5. location_type (string): Either "Remote", "On-site", or "Hybrid".
6. city (string): City of the job location (if On-site or Hybrid). Otherwise, null.
7. state (string): State/Province of the job location (if On-site or Hybrid). Otherwise, null.
8. country (string): The country of the job.
9. date_posted (string): The actual calendar date the job was posted in YYYY-MM-DD format (e.g., "2025-06-18").

   This should be computed based on relative phrases like "5 days ago" using the extraction date.

10. employment_type (string): Such as "Full-time", "Part-time", "Contract", "Internship".
11. application_link (string): The direct URL to the job advertisement page (e.g., on LinkedIn, Indeed). This should link back to the full job listing and allow future reference. If no such URL is available, use null.
12. salary_range (string): If a salary or range is explicitly mentioned, copy as is. Otherwise, null.

Technical Skills & Competencies

- **required_skills (array of strings):** Bullet list of must-have technical skills or qualifications.
- **preferred_skills (array of strings):** Bullet list of nice-to-have or preferred skills.

Domain Knowledge

- **domain_knowledge (array of strings):** A bullet list of any domain-specific knowledge explicitly mentioned in the job ad, such as:
    1. AI/ML knowledge areas (e.g., NLP, Computer Vision)
    2. Industry-specific expertise (e.g., Healthcare, Finance)
    3. Compliance or regulatory knowledge (e.g., AI ethics, data privacy)

If none is mentioned, return an empty array [].

Soft Skills

- **soft_skills (array of strings):**
  A bullet list of any soft skills explicitly mentioned in the job posting. Examples include: Communication, Problem-solving, Teamwork, and Project management. If none are mentioned, return an empty array [].

Experience & Education

- **experience_level (string):** The level of experience required for the role.
  Accept either named levels such as "Entry level", "Mid-Senior level", "Director", etc., **or** numeric expressions such as "3+ years", "5 years of experience", etc.
  If not specified in the job post, use null.
- **education_degree_level (string):** The required or preferred degree level — e.g., "Bachelor's", "Master's", "PhD". If no specific degree level is mentioned, use null.
- **education_field (string):** The required or preferred field of study — e.g., "Computer Science", "Artificial Intelligence", "Data Science". If no specific field is mentioned, use null.

Job Responsibilities

- **key_responsibilities (array of strings):** Bullet-list of major job responsibilities.
- **collaboration_requirements (array of strings):** A bulleted list of teams, departments, or roles the job requires collaborating or coordinating with. If not mentioned, return an empty array [ ].
- **job_description_text (string):** The full, unedited text of the job description as given to you.

Benefits

- **benefits (array of strings):** Any benefits mentioned, such as health insurance, retirement savings (e.g., 401k), relocation, wellness programs, etc.
- **growth_opportunities (string):** Any mention of career advancement, learning, mentorship, or leadership development. If none, use null.

JSON Output Template:

```
{

 "job_title": "",

 "company_name": "",

 "company_size": "",

 "company_industry": "",

 "location_type": "",

 "city": null,

 "state": null,

 "country": "",
```

```json
    "date_posted": "",

    "employment_type": "",

    "application_link": null,

    "salary_range": null,

    "required_skills": [],

    "preferred_skills": [],

    "domain_knowledge": [],

    "soft_skills": [],

    "experience_level": null,

    "education_degree_level": null,

    "education_field": null,

    "key_responsibilities": [],

    "collaboration_requirements": [],

    "innovation_research_expectations": null,

    "job_description_text": "",

    "benefits": [],

    "growth_opportunities": null
}
```

➔ **For now, I'll be handling the copying of the LLM's extracted JSON responses back into Qualtrics manually.**