# CrewAl Task: Market Intelligence Report on Al/ML Jobs in MENA

### **Objective**

Design and deploy a multi-agent system that autonomously searches the web for current information about the most in-demand AI/ML job roles in the MENA (Middle East and North Africa) region, analyzes trends, and compiles a summarized report.

## **Task Description**

#### Goal:

- Build a collaborative multi-agent system using CrewAl (or another framework).
- Agents must:
  - 1. Search and scrape data from job platforms (e.g., LinkedIn, Bayt, Wuzzuf, Glassdoor).
  - 2. Identify patterns and frequently mentioned AI/ML job titles.
  - 3. Extract skill requirements and job location distributions.
  - 4. Rank jobs based on demand metrics (post frequency, location spread, salary if available).
  - 5. Generate a concise report with data visualizations.

### Agents to Include:

- 1. **Web Search Agent** Queries job boards and aggregates raw data.
- 2. **Data Extraction Agent** Parses job postings to extract job title, skills, location, and company.
- 3. **Trend Analysis Agent** Analyzes which roles are most in-demand, trending skills, etc.
- 4. Report Writer Agent Compiles a clean markdown/PDF report with sections on:
  - Top 10 AI/ML roles

- o Key skills required
- o Country-wise job distribution
- o Observed trends or shifts

### Deliverables:

- Codebase for the multi-agent system.
- Final report: "Top AI/ML Jobs in MENA May 2025"
- Optional: dashboard or CLI preview for trends before report generation.