

## Gold Layer DAX Measures – AI Job Market Analytics

### 1. Job Demand

Counts the total number of AI job records.

**DAX:**Job Demand = SUM(fact\_ai\_jobs[job\_count])

### 2. Average Salary

Calculates the average salary across selected dimensions.

**DAX:**Average Salary = AVERAGE(fact\_ai\_jobs[salary\_usd])

### 3. Job Demand by Role

Shows job demand broken down by role (job title),

**DAX:**Job Demand by Role =CALCULATE ( [Job Demand], VALUES ( dim\_job[job\_title] ) )

### 4. Job Demand by Country

Shows job demand broken down by country/location,

**DAX:**Job Demand by Country =CALCULATE ( [Job Demand], VALUES ( dim\_location[company\_location] ) )

### 5. Job Demand YoY %

Measures year-over-year growth in AI job demand.

**DAX:** Job Demand YoY % =VAR PrevYear = CALCULATE([Job Demand], SAMEPERIODLASTYEAR(dim\_date[full\_date])) RETURN DIVIDE([Job Demand] - PrevYear, PrevYear)

### 6. Average Salary by Role:

Calculates average salary for each role (job title)

**DAX:** Average Salary by Role =CALCULATE ([Average Salary],VALUES ( dim\_job[job\_title] ) )

### 7. Industry Hiring Share

Shows the proportion of AI jobs by industry.

**DAX:**Industry Hiring Share % = DIVIDE([Job Demand], CALCULATE([Job Demand], ALL(dim\_company[industry])))

### 8. Salary Variation Index

Compares average salary by country to global average.

**DAX:**Salary Variation Index = DIVIDE([Average Salary], CALCULATE([Average Salary], ALL(dim\_location)))

### 9. Remote Work Ratio

Percentage of remote jobs.

**DAX:**Remote Work Ratio = DIVIDE(CALCULATE([Job Demand], dim\_work[work\_arrangement] = "Remote"), [Job Demand])

## **10.Skill Demand Count**

Counts job demand associated with each skill

**DAX:**Skill Demand Count =CALCULATE ([Job Demand],VALUES ( dim\_skill[skill\_name] ))

## **11.Skill Demand Share %**

Shows each skill's share of total job demand across all skills (percentage contribution)

**DAX:**Skill Demand Share % =DIVIDE ([Skill Demand Count],CALCULATE ( [Job Demand], ALL ( dim\_skill[skill\_name] ) ))

## **12.Average Salary by Skill**

Calculates average salary for postings associated with each skill

**DAX:**Average Salary by Skill =CALCULATE ([Average Salary],VALUES ( dim\_skill[skill\_name] ))

## **13.Industry Hiring Share %**

Shows each industry's share of total job demand across all industries

**DAX:**Industry Hiring Share % =DIVIDE ( [Job Demand],CALCULATE ( [Job Demand], ALL ( dim\_company[industry] ) ))

## **14.Average Benefit Score**

Computes the average benefits score

**DAX:**Average Benefit Score =AVERAGE ( dim\_work[benefits\_score] )

## **15. Skill Premium Index:**

Identifies skills associated with higher-than-average salaries.

**DAX:**Skill Premium Index = DIVIDE([Average Salary], CALCULATE([Average Salary], ALL(dim\_skill)))

## **16. High-Value Role Index**

Combines salary and demand to identify high-value AI roles.

**DAX:** High-Value Role Index = [Average Salary] \* [Job Demand]