

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]