**Global AI Job Market & Salary Trends (2025)**

# Dataset Source

Kaggle - Global AI Job Market and Salary Trends 2025

<https://www.kaggle.com/datasets/bismasajjad/global-ai-job-market-and-salary-trends-2025>

# Objective

To analyze and visualize trends in the global AI job market, focusing on factors that affect salaries such as experience level, remote work, company size, and geographic region. This report aims to provide actionable insights for job seekers, recruiters, and policy-makers.

# Dataset Overview

The dataset consists of AI-related job postings from around the world, and includes:

- job\_title: Title of the job

- company\_location: Location of the company

- employee\_residence: Location of the employee

- experience\_level: Entry (EN), Mid (MI), Senior (SE), Executive (EX)

- company\_size: S (Small), M (Medium), L (Large)

- remote\_ratio: representing on-site, hybrid, or fully remote

- salary\_usd: Salary in USD

# Key Exploratory Visualizations & Insights

**1. Salary Distribution with KDE**

- Majority of AI salaries range from $50,000 to $150,000.

- KDE curve shows data concentration for better understanding.

**2. Remote Work Ratio (Pie Chart)**

- Roles are mostly hybrid or fully remote.

**3. Salary vs Experience Level (Boxplot)**

- Executives earn the highest, up to $400k+

- Entry-level salaries are the lowest but trending upward.

**4. Company Size vs Salary (Boxplot)**

- Larger companies offer higher median salaries.

# Geographic Trends

- North America and Europe lead in median salaries.

- Some regions are remote-first to leverage global talent.

# Key Takeaways

- Experience is a major driver of salary.

- Remote roles are widespread.

- Larger firms generally offer better compensation.

- Geography plays a significant role in salary levels.

# Business Value

This project provides insights that firms like Google, Meta, and Amazon can use to:

- Benchmark compensation

- Identify new AI talent hubs

- Optimize remote work strategies

# Future Work

- Add time-based trend analysis

- Use predictive models for salary forecasting

- Build dashboards for recruitment teams

# Tools & Technologies Used

- Python (Pandas, NumPy, Seaborn, Matplotlib)

- Google Colab

- Dataset from Kaggle

# Conclusion

The analysis highlights influential factors in AI job compensation. With AI rapidly evolving, this dataset and methodology provide a strong foundation for strategic hiring and job decision-making.

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