Day 9: Final Insights & Report

Dataset Used: cleaned_DataScientist.csv



To summarize key findings from the data analysis of Data Scientist job listings across various dimensions such as job titles, skills, companies, and locations.

Key Insights:

1. II Most In-Demand Skills

- · Top technical skills:
 - data, machine, learning, python, sql, analytics, statistics
- · Cloud & Big Data tools:
 - aws, spark, hadoop, powerbi, tableau
- · Soft skills frequently mentioned:
 - communication, leadership, problem-solving

2. marked High-Growth Job Titles

- Top 3 titles by frequency:
 - o data scientist, data analyst, data engineer
- · Other emerging titles:
 - ML engineer, AI scientist, Analytics Specialist
- · Synonym grouping and NLP helped normalize variations

3. Regional Job Hubs

- Top cities for data jobs:
 - ∘ New York, NY, Austin, TX, Chicago, IL, Houston, TX, Dallas, TX
- · Clustering suggests Texas and East Coast are hiring hotspots

4. In Top Hiring Companies

- Most active recruiters:
 - o IBM, Apple, Amazon, Staffigo, Diverse Lynx
- Companies like Facebook, Humana, and CyberCoders are also significant

5. Landustry-Wise Skill Patterns

- · Internet & IT Services prioritize:
 - \circ analytics, statistics, machine learning, python
- Industries like staffing & outsourcing and marketing also show demand for sql, excel, and visualization tools

6. Skill Trends by Job Level

- Entry Level: Emphasis on data, excel, and sql
- Mid-Level: Broader tools like machine learning, python, analytics
- Senior Roles: Add skills like leadership, strategic thinking, and team management

📌 Final Takeaways:

- Data roles are evolving with hybrid requirements: tech + business.
- Core skills like SQL, I → What can I help you build?
- · There's an increasing demand for cloud, big data, and data storytelling skills.
- · Job titles and required skills vary significantly across company type, region, and level.