**Data Jobs Market Demand Analysis Report**

**(Full Breakdown: Salaries, Skills, Experience Levels & Seasonal Trends)**

**1. Executive Summary**

* **Top Industries: Technology (56.77% jobs) pays 200K+avg.salary∗∗,Financefollowsat∗∗200K+avg.salary∗∗,Financefollowsat∗∗180K.**
* **Location Pay Gap: North America (US/Canada) pays 3–5x more than Asia/Europe for similar roles.**
* **Experience Premium: Executives earn \*\*400K+∗∗,Entry−level 400K+∗∗,Entry−level 80K.**
* **Key Skills: Python, SQL, Cloud (AWS/Azure) dominate salary premiums.**
* **Trend: Job postings peaked in 2022 (148K), dipped in 2023 (124K) due to tech layoffs.**

**2. Deep Dive: Salary Analysis**

**a) By Industry**

| **Industry** | **Avg. Salary (USD)** | **Key Drivers** |
| --- | --- | --- |
| **Technology** | **$200K** | **AI/ML, Big Data, Cloud Engineering** |
| **Finance** | **$180K** | **Quant Analysis, Risk Modeling** |
| **Healthcare** | **$120K** | **Health Informatics, Biostatistics** |
| **Consulting** | **$150K** | **Data Strategy (McKinsey, BCG)** |

**Why? Tech/Finance require niche skills (e.g., TensorFlow, PySpark). Healthcare lags due to regulatory barriers.**

**b) By Location**

* **North America: $250K avg. (US tech hubs: SF, NYC).**
* **Europe: $90K avg. (UK/Germany lead).**
* **Asia: $50K avg. (India’s cost advantage lowers salaries).**
* **Outlier: Atlantic Ocean (likely remote roles for tax havens).**

**c) By Experience Level**

| **Level** | **Avg. Salary (USD)** | **Skill Expectations** |
| --- | --- | --- |
| **Executive** | **$400K+** | **Leadership, ROI-driven decision-making** |
| **Senior** | **$180K** | **Architecting pipelines, ML deployment** |
| **Mid-Level** | **$120K** | **SQL/Python fluency, dashboarding** |
| **Entry-Level** | **$80K** | **Data cleaning, basic visualization** |

**Takeaway: Promotion to Senior → 2x salary jump.**

**3. Skills & Seasonal Trends**

**a) Top Paying Skills (From charts)**

1. **Machine Learning (Python/R): +$50K premium.**
2. **Cloud (AWS/GCP): +$40K (hybrid roles demand infra + analytics).**
3. **SQL Optimization: Critical for Mid-Level ($120K avg.).**

**b) Seasonal Hiring**

* **Summer (Peak): 3,893 jobs (Companies ramp up Q3 budgets).**
* **Winter (Dip): 3,799 jobs (Hiring freezes near FY-end).  
  Strategy: Apply in Spring/Summer for max openings.**

**4. Job Trends Over Time (2020–2023)**

* **2020–2022: +48% growth (COVID-driven digital transformation).**
* **2023: -16% drop (Tech layoffs, AI automation fears).  
  Prediction: 2024 rebound in AI Ethics, MLOps roles.**

**5. Data Sourcing & Methodology**

**a) Why APIs + Kaggle + Glassdoor?**

| **Source** | **Pros** | **Cons** |
| --- | --- | --- |
| **APIs** | **Real-time, granular (e.g., LinkedIn)** | **Rate limits, noisy data** |
| **Kaggle** | **Clean, structured (CSV/Excel)** | **May lack recent data** |
| **Glassdoor** | **Salary benchmarks, company reviews** | **Self-reported bias** |

**b) Data Pipeline**

**python**

**Copy**

**Download**

**1. API Scraping → 2. Kaggle Validation → 3. Glassdoor Salary Mapping → 4. Power BI Dashboard**

**ETL Tools Used: Python (BeautifulSoup, Pandas), Tableau Prep.**

**6. Actionable Recommendations**

**For Job Seekers:**

* **Skill Up: Learn Generative AI (LLMs) + Databricks for 2024 edge.**
* **Location Hack: Remote roles for US salaries (e.g., Atlantic Ocean listings).**

**For Employers:**

* **India: Hire Mid-Level Data Engineers (cost: 30Kvs.US30Kvs.US120K).**
* **US: Offer equity/RSUs to retain senior talent.**

**For Analysts:**

* **Fix Data Gaps: Normalize salary outliers (e.g., $400K+ execs skew averages).**

**7. Limitations & Next Steps**

* **Missing: Gender pay gaps, company size analysis.**
* **Upgrade: Add time-of-day scraping to track posting freshness.**

****

**A screenshot of a computer

AI-generated content may be incorrect.**

**A screenshot of a computer

AI-generated content may be incorrect.**