

Indian Job Market Analysis Dashboard

A comprehensive overview of employment trends across industries and locations in India — empowering recruiters, job seekers, and analysts with data-driven insights.



Project Overview



Purpose

Identify high-demand roles, popular job locations, and emerging skill requirements across India's employment landscape.



Insights

Analyze salary patterns and employment trends to support strategic hiring decisions.



Audience

Designed for recruiters, job seekers, and market analysts seeking actionable data.

Dataset Overview

20K

Total Rows

Comprehensive dataset

20

Key Columns

Rich feature set

Key Features

- Job Information: titles, experience, education requirements
- Company Details: name, size, industry
- Location & Work Mode: remote, onsite, hybrid options
- Compensation: salary ranges, applicant numbers
- Timeline: posting dates, deadlines, portals

Data Preparation with Python

01

Data Loading

Imported dataset using pandas for manipulation and analysis.

02

Initial Exploration

Used `.info()` and `.describe()` for structure and summary statistics.

03

Quality Check

Zero missing values confirmed across all columns – ensuring data completeness.

04

Standardization

Renamed columns to snake_case format for consistency and readability.

05

Feature Engineering

Created derived columns like `job_level` and `application_deadline` for deeper insights.

SQL Analysis: Key Findings

1

Remote Opportunities

Top 5 cities offering the most remote job listings identified.

2

In-Demand Roles

Most frequently posted job titles: Cyber Security Analyst, Marketing Executive, Product Manager.

3

Hiring Patterns

Companies with highest number of full-time job postings analyzed.

4

High-Paying Jobs

Average applicants for positions offering more than 10 LPA tracked.

Education & Platform Insights

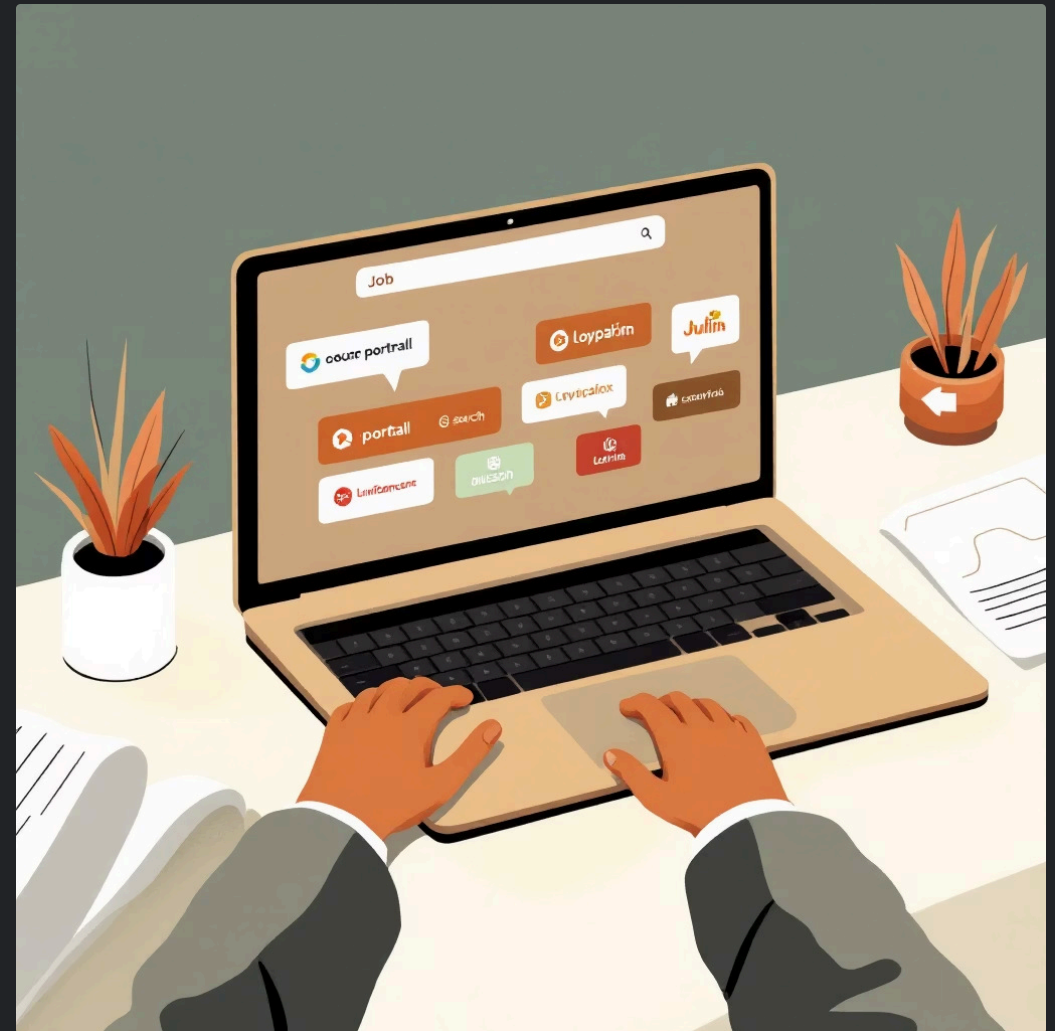
Most Required Education

Bachelor's degrees (B.Sc, B.Tech) and MBAs are most commonly required across roles, showing diverse educational preferences.



Top Job Portals

LinkedIn, Naukri, and Indeed lead in job listings, with LinkedIn showing highest visibility for professional roles.



Remote Work & Salary Trends

High-Paying Remote Jobs

Companies offering remote positions with salaries above 15 LPA identified – expanding opportunities beyond traditional office locations.

Experience vs. Salary

Clear correlation between experience level and average salary range, with senior roles commanding premium compensation.

Hybrid Opportunities

Top locations offering hybrid job opportunities for technical roles like Software Engineer and Data Analyst mapped.

Power BI Dashboard

Built an interactive dashboard in Power BI to present insights visually — enabling stakeholders to explore trends, filter by location, and analyze hiring patterns in real-time.

Visual Analytics

Dynamic charts showing job distribution, salary ranges, and applicant trends.

Interactive Filters

Drill-down capabilities by location, company size, and experience level.

Business Recommendations

Embrace Flexibility

Encourage remote and hybrid jobs to attract more candidates and expand talent pools.

Focus on Demand

Prioritize hiring for top roles: Cyber Security Analyst, Marketing Executive, Product Manager.

Competitive Pay

Review salary ranges to balance applicant interest with job quality and retention.

Strengthen Branding

Help startups build employer brand to compete with established companies.

Diverse Hiring

Recruit from varied education backgrounds (B.Sc, B.Tech, MBA) and prioritize skills over qualifications.

Multi-Platform Strategy

Use LinkedIn, Naukri, and Indeed to maximize reach and candidate engagement.



Key Takeaways



Market Evolution

Remote work and flexible arrangements are reshaping India's job market landscape.



Skills Matter

Shift toward skill-based hiring over traditional qualifications is accelerating.



Stay Agile

Continuously analyze trends and update hiring strategies to remain competitive.

Offer career growth and training programs to retain skilled employees and build long-term organizational strength.