Data Analyst Job Market Analysis – India

1. Introduction

This project analyzes the Data Analyst job market in India to identify hiring trends, in-demand skills, and key job locations using real job posting data.

2. Problem Statement

Many freshers are unsure which skills and tools to focus on for Data Analyst roles. This project addresses this problem by analyzing job postings to extract practical insights.

3. Data Description

The dataset consists of Data Analyst job postings collected from job portals across India, including information on skills, locations, and experience requirements.

4. Data Cleaning & Preparation

Data cleaning was performed using Python to remove duplicates, handle missing values, and standardize skill and location fields for accurate analysis.

5. Analysis Approach

Python was used for exploratory data analysis, SQL for querying and aggregating insights, and Power BI for creating interactive dashboards.

6. Key Insights

• SQL, Python, Excel, and Power BI are the most demanded skills. • Major hiring hubs include Bangalore, Delhi NCR, Mumbai, and Hyderabad. • Entry-level roles form a large share of the job market.

7. Dashboard Overview

The Power BI dashboard visually presents skill demand, city-wise jobs, and experience distribution for easy understanding.

8. Conclusion

This analysis helps freshers focus on the right skills and tools required to prepare effectively for Data Analyst roles in India.