

JOB ANALYTICS

Prediction using Machine
Learning Algorithm

Instahyre



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INTRODUCTION

- **Instahyre** is an advanced **hiring platform** based on artificial intelligence, enabling recruiters to hire top talent effortlessly.
- Trusted by **10,000+ companies** including Google, Amazon, Flipkart, Microsoft, Uber, Walmart, Swiggy, and more!



Instahyre

INTRODUCTION

PROBLEM STATEMENT :

- To help **Job seekers** and career **professionals** with the information they need to make informed decisions about their careers.
- To Develop an user-friendly **application** to find **relevant** job opportunities and **gain** insights based on their skill set.



INTRODUCTION

OBJECTIVES :

- **Develop** an application that provides useful **insights** and relevant job openings based on skills.
- The **goal** is to help **job seekers** and professionals to gain a better understanding of **job market**, including the most common location, experience level, relevant class, and total **number** of jobs available.
- The application should be **scalable** and should be able to accommodate the addition of **new features** in the future.



ROADMAP



WEB SCRAPING

Web Scraping using
Python library Selenium.



DATA CLEANING

Data Cleaning using
Excel & Python.



GENERATE INSIGHTS

Insight Generation using
SQL and Power BI.



MODEL BUILDING

ML Model Building
Using Sci-kit Learn.



MODEL DEPLOYMENT

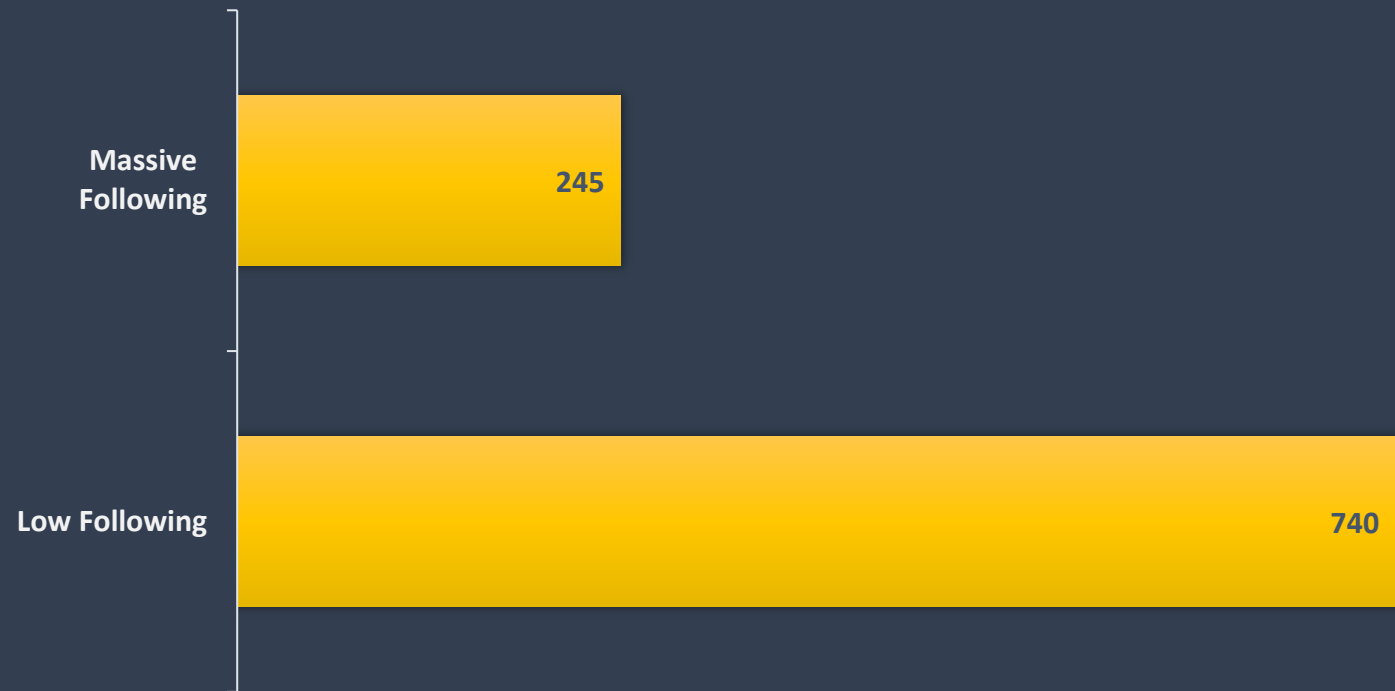
Model Deployment using
Stream-lit.

Instahyre

INSIGHTS

- Most of the listed companies on **Instahyre** have low LinkedIn Followers.

Total Number of companies based on LinkedIn followers



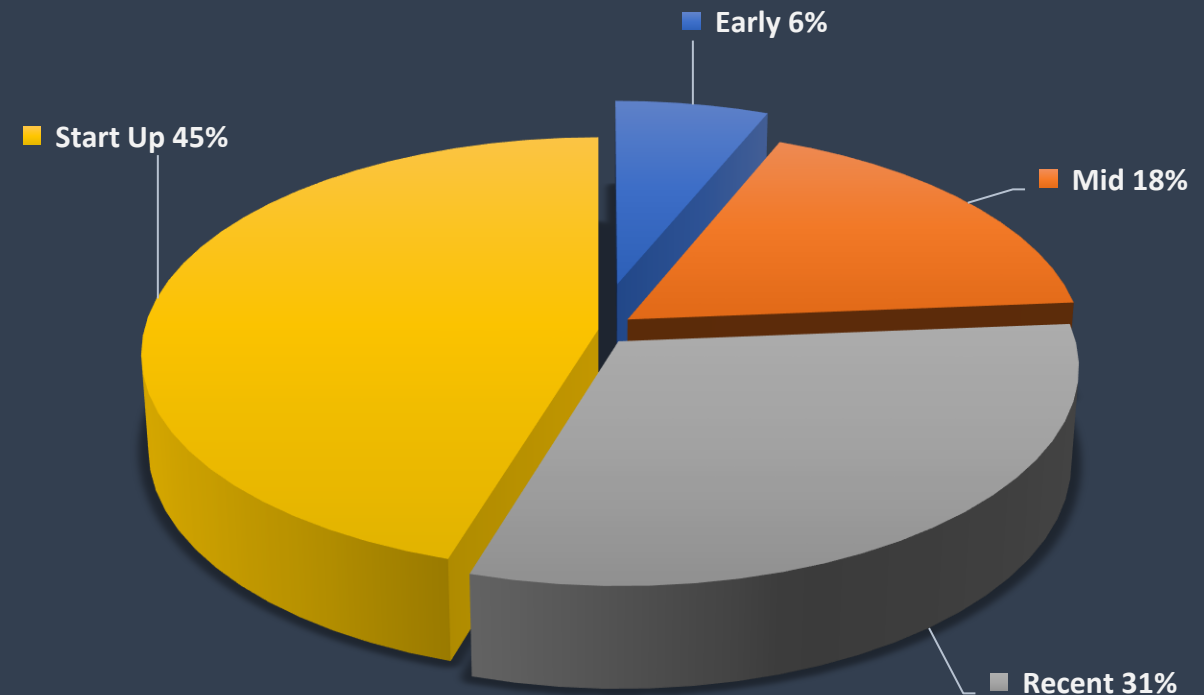
Massive Following : Followers more than 50K

Low Following : Followers less than 50K

INSIGHTS

- Companies Founded after year **2000** have the most Job Opportunities.

Companies Based on Foundation Year



Early : 1841 – 1950

Mid : 1951 – 1999

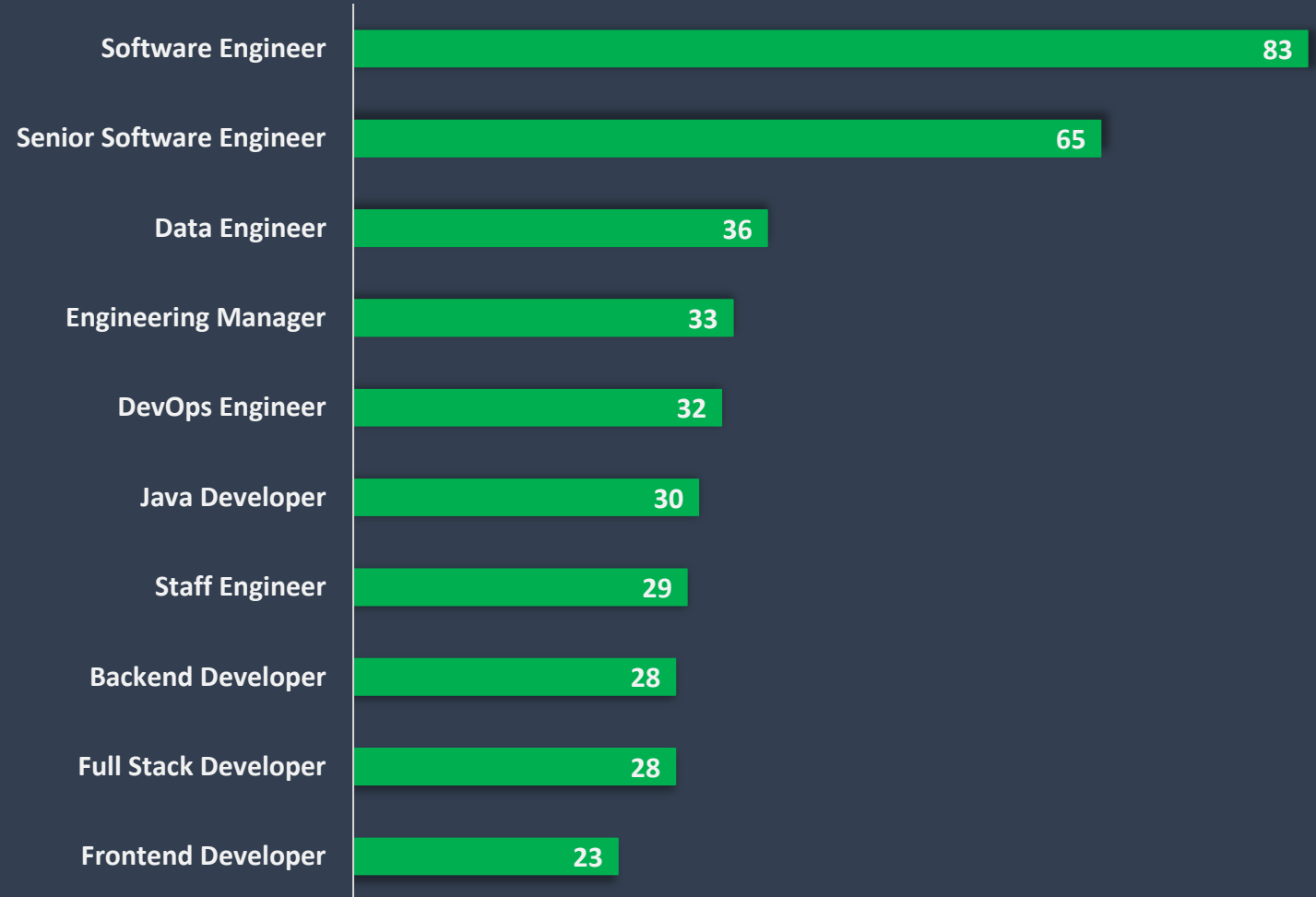
Recent : 2000 – 2014

Start-up : 2015 – Present

INSIGHTS

- **Software Engineer** is the most demanding designation in the market.
- **IT** Jobs are high in demand.

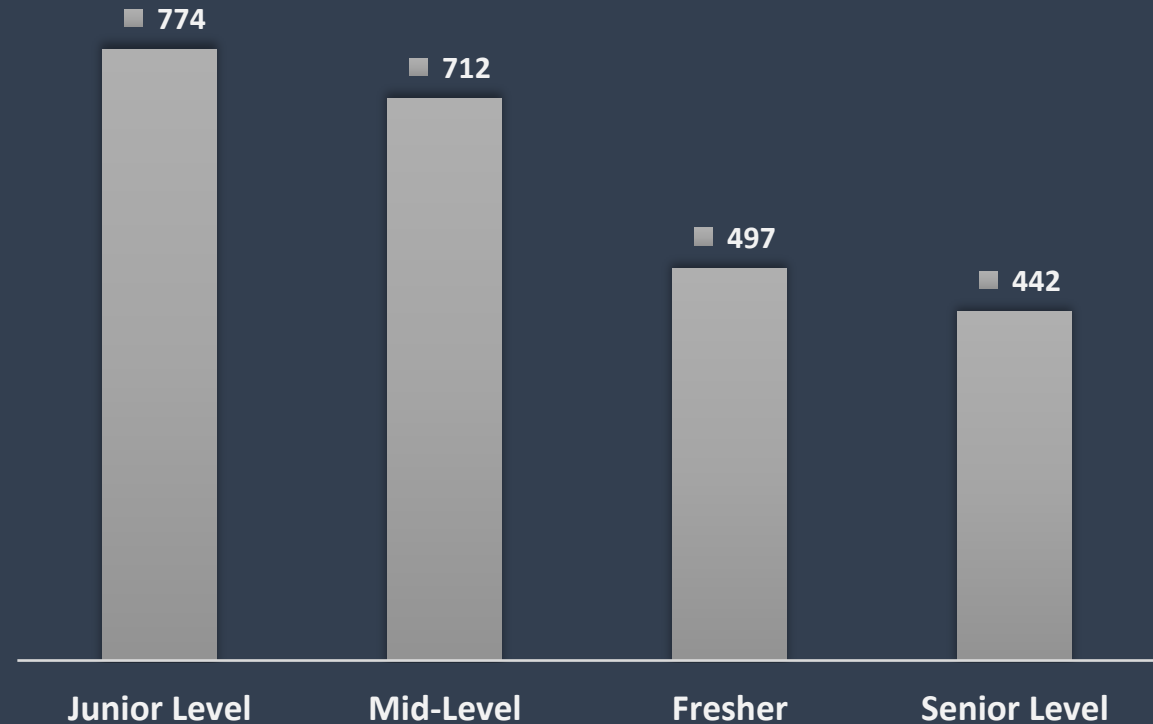
Top 10 Designations Based on Jobs Available



INSIGHTS

- Job opportunities are higher for **experienced** candidates as compared to **entry-level** freshers.

Job Openings By Experience Level



Fresher : 0-1 year
Junior Level : 1-3year
Mid Level : 4-6 year
Senior Level : 6+ year

SKILL SEARCH MODEL

Job Analytics

Our search feature displays the most prevalent experience level, top workplace, and popular classes for a particular skill, along with the total number of jobs related to that skill.

Search Skills

sql

Searching for jobs related to: sql

Most Common Experience Level : **Mid-Level**

Most Common Workplace : **Bangalore**

Most Common Classes : **Class2**

Total Number of Jobs Available : **244**

[Job Details >>](#)

CHALLENGES FACED

- Scraping **LinkedIn followers** of different companies without getting **banned** was a challenging task.
- Proper integration of **SpellChecker** consumed a lot of time.
- After ML model deployment, It took us some time and **efforts** to get familiar with **HTML** and **CSS** language for designing UI.

FUTURE SCOPE

- The project demonstrates the **potential** of using data analysis and visualization techniques to gain insights into complex job markets. These techniques can be **applied** to other industries and **domain** to provide insights and help **decision-making** processes.



CONCLUSION

- The project **successfully** provides insights into the job market for popular skills like Python and SQL, which can be **valuable** for job seekers, employers and industry analysts alike.
- The analysis of the most common location, experience level, and job classes can be used by job seekers to target their job search and improve their chances of **finding a relevant job**. Similarly, employers can use this information to refine their **hiring strategies** and tailor job requirements to the current job market.



THANK YOU!



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