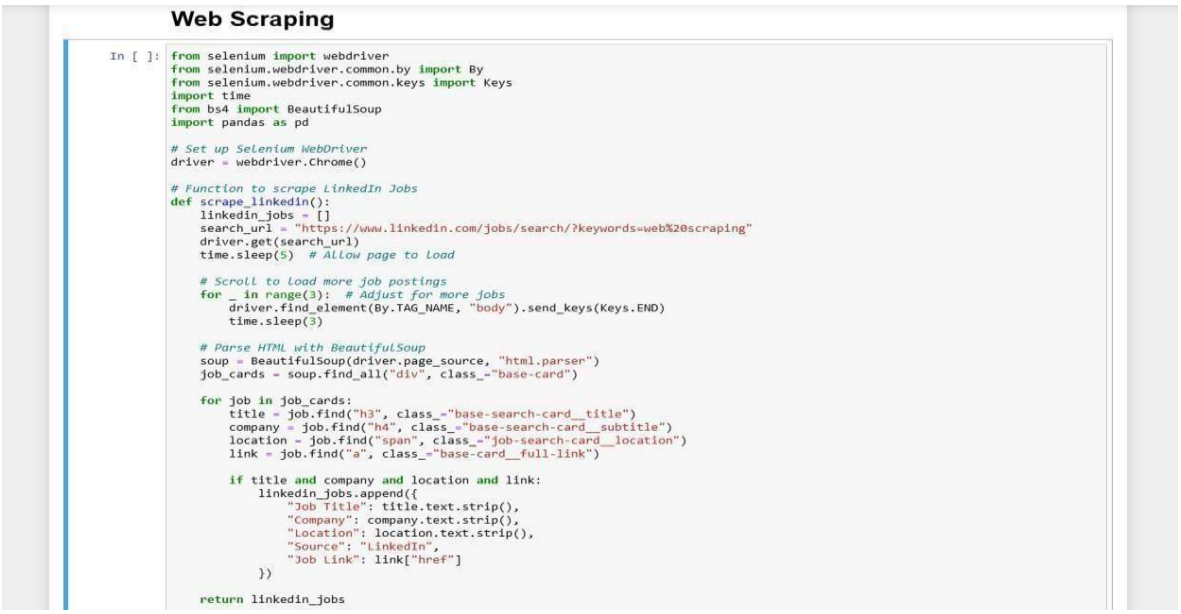
Screenshots



Web Scraping

In [ ]:

```
from selenium import webdriver
from selenium.webdriver.common.by import By
from selenium.webdriver.common.keys import Keys
import time
from bs4 import BeautifulSoup
import pandas as pd

# Set up Selenium WebDriver
driver = webdriver.Chrome()

# Function to scrape LinkedIn Jobs
def scrape_linkedin():
    linkedin_jobs = []
    search_url = "https://www.linkedin.com/jobs/search/?keywords=web%20scraping"
    driver.get(search_url)
    time.sleep(5)  # Allow page to load

    # Scroll to load more job postings
    for _ in range(3):  # Adjust for more jobs
        driver.find_element(By.TAG_NAME, "body").send_keys(Keys.END)
        time.sleep(3)

    # Parse HTML with BeautifulSoup
    soup = BeautifulSoup(driver.page_source, "html.parser")
    job_cards = soup.find_all("div", class_="base-card")

    for job in job_cards:
        title = job.find("h3", class_="base-search-card__title")
        company = job.find("h4", class_="base-search-card__subtitle")
        location = job.find("span", class_="job-search-card__location")
        link = job.find("a", class_="base-card__full-link")

        if title and company and location and link:
            linkedin_jobs.append({
                "Job Title": title.text.strip(),
                "Company": company.text.strip(),
                "Location": location.text.strip(),
                "Source": "LinkedIn",
                "Job Link": link["href"]
            })

    return linkedin_jobs
```

1. Job Findings

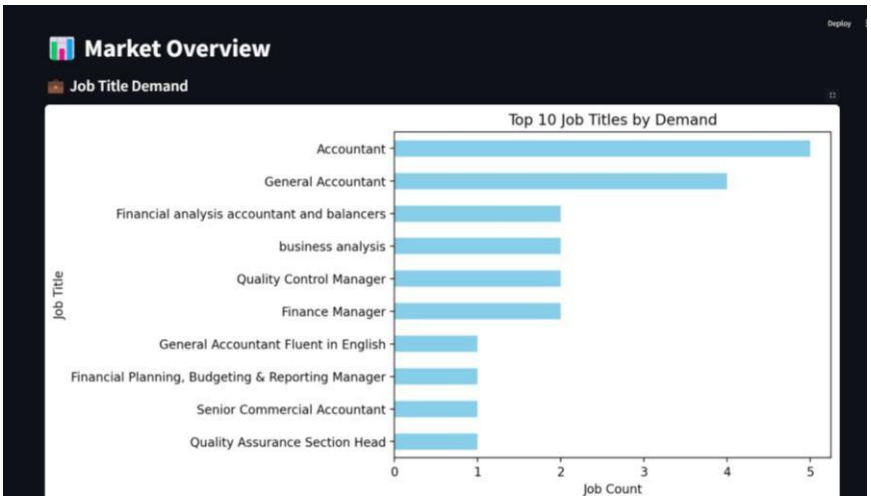
Purpose:

- This image appears to be a screenshot of a job market insights dashboard, aimed at helping users search for jobs, analyze skills demand, and evaluate salary trends.

Use case:

- Useful for job seekers looking for roles in specific fields.
- Could provide real-time labor market trends based on job postings.

2. Overview Of Job

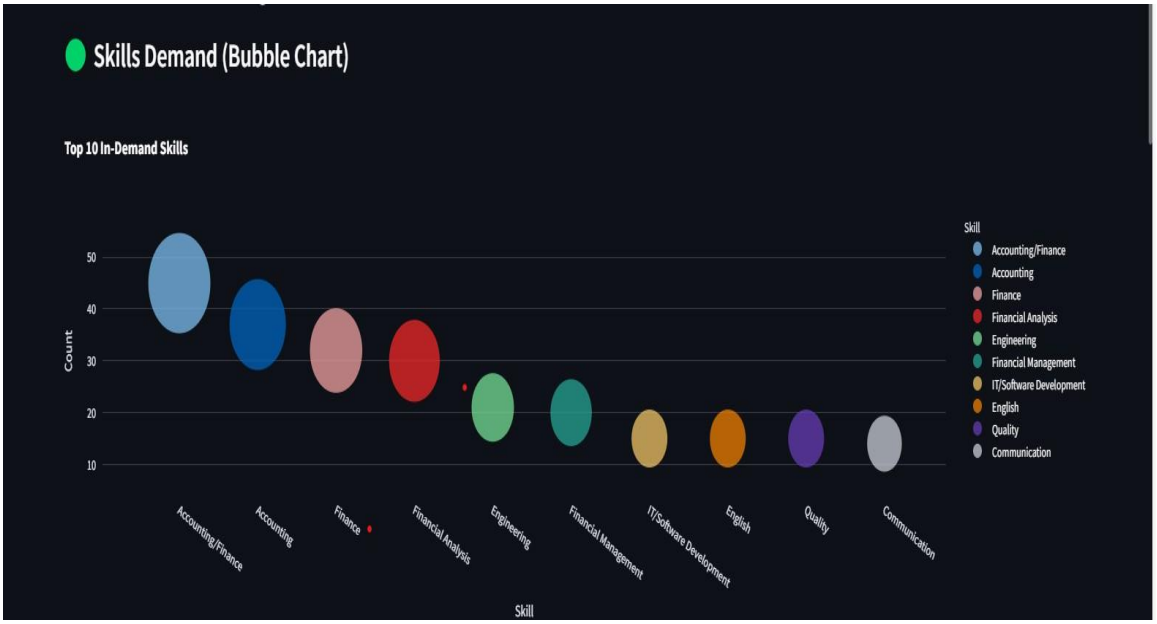


It aims to provide **forecasted job growth** insights for different careers.

Use Cases:

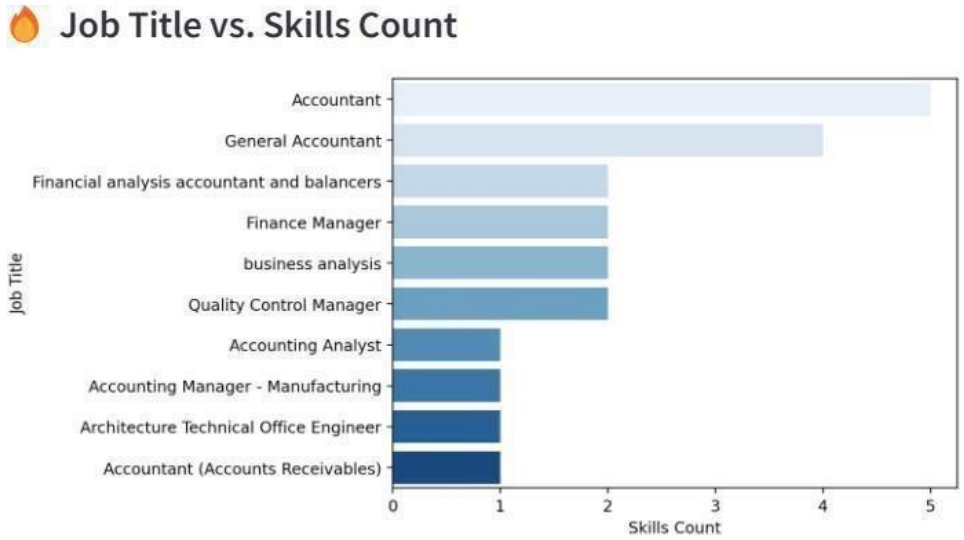
1. Helps job seekers **identify high-growth career paths**.
2. Useful for **workforce planning** by companies and government agencies.
3. Can aid **students** in selecting future career options based on demand.

3. Skills Analysis



1. A salary comparison feature (e.g., between cities or job titles).
2. Data-driven approach to understanding pay trends based on industry, location, and experience.

4. Job vs Skill

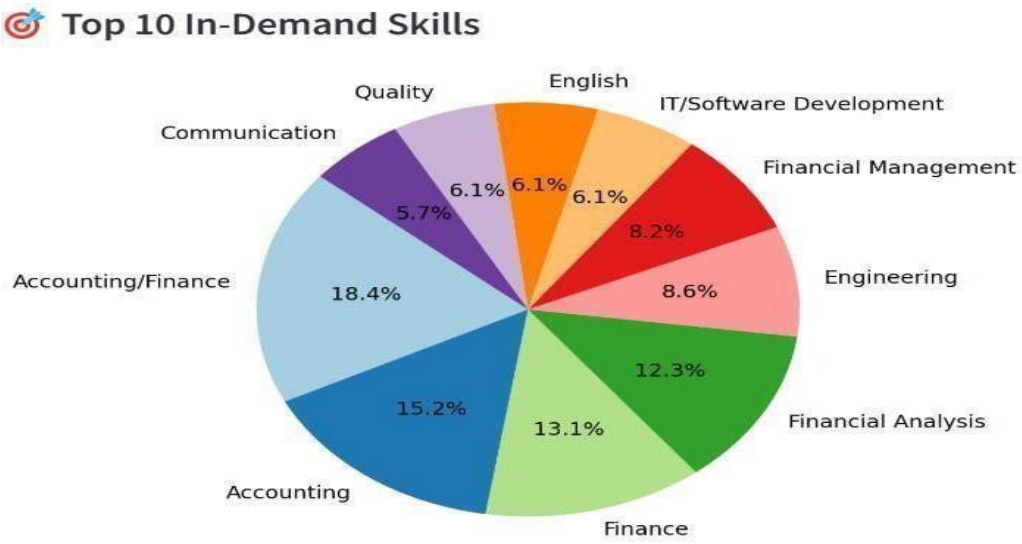


Helps job seekers align their training or certifications with market needs.

Use Cases:

1. Can guide upskilling and reskilling efforts.
2. Helps education providers align courses with job market demand.
3. Beneficial for HR professionals to adjust hiring strategies.

5. Skills In-Demand

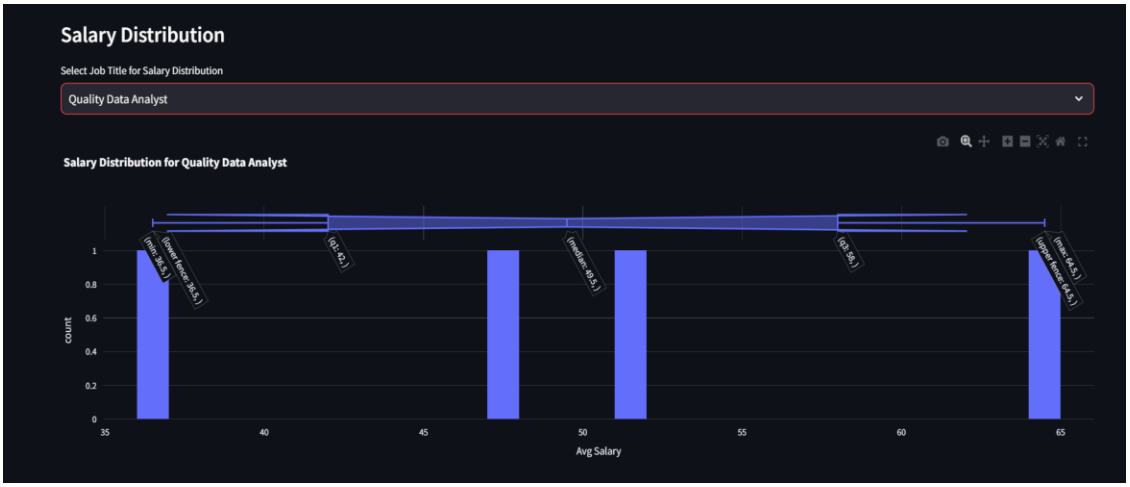


Use Cases:

1. Helps job seekers target the right time and place to apply.
2. Useful for businesses to adjust recruitment strategies based on hiring demand.
3. Governments and policymakers can use this data for labor market planning.

6. Salary Distribution

The Salary Distribution for a selected job title, in this case, "Quality Data Analyst." The histogram visualizes the spread of salaries within this role, indicating the frequency of different salary ranges

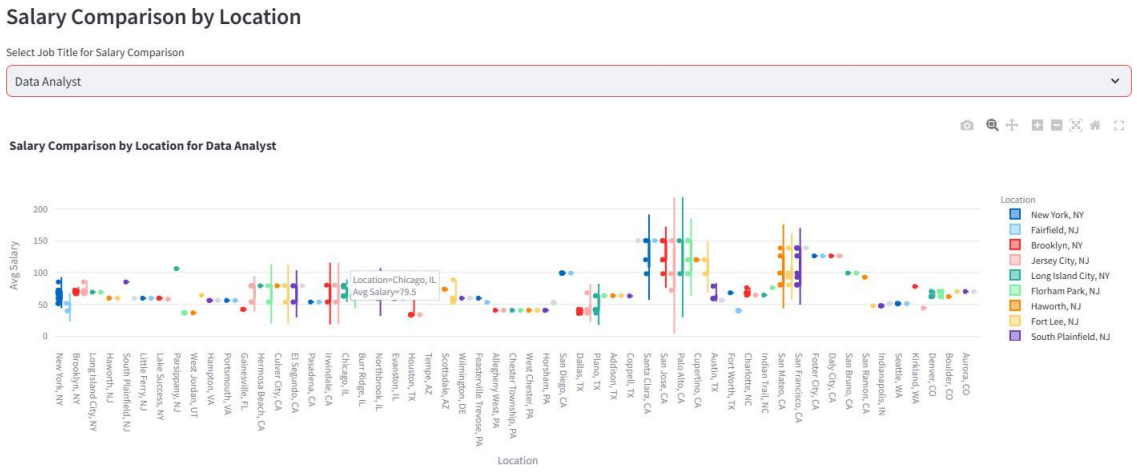


Use Case:

1. The salaries are concentrated within a specific range.
2. There are a few outliers, suggesting salary variations based on experience, location, or industry.

7. Salary Comparison by Location

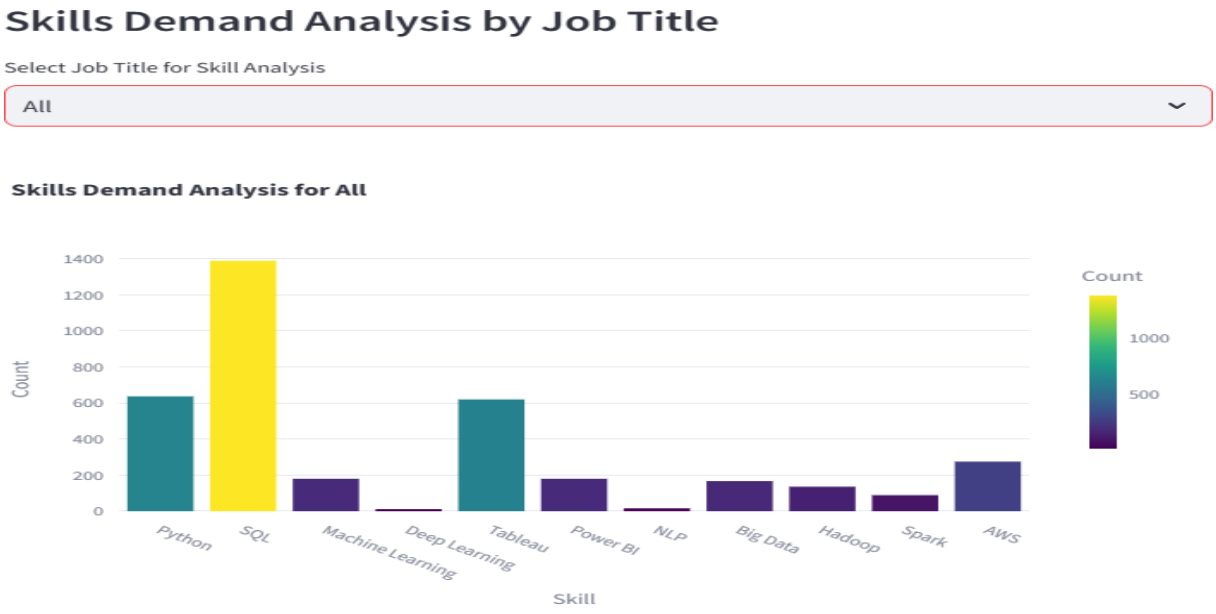
The scatter plot with error bars represents the average salaries and their variations across multiple locations. The colors represent different cities, providing a clear visual distinction.



Use Case:

1. There is a significant variation in salaries based on location.
2. Cities like **Chicago, IL** have a wide salary range, suggesting differences based on experience, industry, or demand.
3. Some locations have consistently high salaries, indicating strong demand for Data Analysts.

8. Skills Demand Analysis



Use Case:

1. SQL is the most in-demand skill, followed by Python and Tableau.
2. Skills such as Machine Learning, NLP, and Hadoop have lower demand but are still relevant.
3. This analysis helps professionals align their skill sets with market demand.