# Linked in Job Posting 2023 Dataset

**Data Source:** This dataset from <u>Kaggle</u> contains a record of **33,000+ job postings** listed over the course of 2 days.

**Motivation:** Linkedin is the most well-known social media site used to post various employment opportunities making it a good source to analyze

- Amount of job postings for a specific job types/industries
- Offered salary ranges for job postings
- Locations with highest job postings for specific job types/industries

This analysis will be covering job postings related specifically to **data analysis jobs**.

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### **Dataset Analysis 1**

Original dataset is 33,246 rows and 28 columns.

Filtering specifically for roles containing "**Data Analyst**" in the title brought up 91 job postings.

After some data cleaning (filtering & replacing values), the top 5 states with the majority of "Data Analyst" job postings were:

- CA California
- 2. TX Texas
- 3. VA Virginia
- 4. NC North Carolina
- 5. FL Florida

```
#Since there are just 3 rows with this discrepancy for the job title we are searching for, we can update using loc
    df2.loc[df2['city'] == 'California', 'state'] = 'CA'
    df2.loc[df2['city'] == 'Hawaii', 'state'] = ' HI'
    df2.loc[df2['city'] == 'Maryland', 'state'] = ' MD'
[ ] # Checking to see if values have been successfully updated
     df2.loc[[9858, 16897, 31082]]
                job id company id
                                        title
                                                     description max salary med salary min salary pay period formatted w
                                        Senior
                                                 Company: Sungrow
                                                                         NaN
                                                                                     NaN
                                                                                                             NaN
                                                 Power Supply Co.,
                                       Analyst
                                                 The position of Data
     16897 3748844912
                                                        Processing
                                                                         NaN
                                                                                     NaN
                                                                                                             NaN
                                       Analyst
                                                 Systems Analys...
                                      Power BI
                                                     Power BI Data
     31082 3693051072 10577525.0
                                                 Analyst - (Remote)
                                                                         NaN
                                                                                     NaN
                                                                                                             NaN
                                      Analyst -
                                                   CARIAN is gro.
                                      (Remote)
[ ] #Filtering top 5 states with the most job postings containing 'Data Analyst' in the title
     df2.groupby(['state'])['state'].count().sort values(ascending=False).head(5)
    state
     NC
```

Name: state, dtype: int64



## **Dataset Analysis 2**

For job postings with "**Data Analysts**" in the title:

- 24 out of the 91 roles indicated that remote work was allowed for hired employees.
- 27 roles made mention of the program "Python" in the job description.
  - For a majority of these roles (17 in total) requested Python for Mid-Senior Level job positions

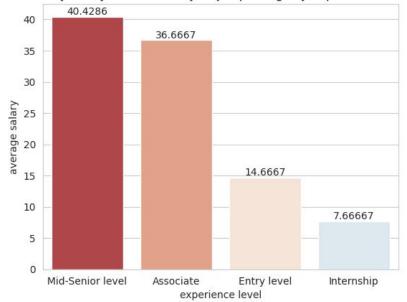
```
[ ] # Of the 91 job postings, only 24 are remote
    df2.groupby(['remote_allowed'])['remote_allowed'].count().sort_values(ascending=False)
    remote allowed
    1.0
         24
    Name: remote allowed, dtype: int64
    # Filtering for 'Python' mentioned in job description
     df pyth= df2[df2["description"].str.contains("Python", na=False)]
    df pyth.shape
(27, 19)
    #How many of these job descriptions mention 'Python'?
     df pyth.groupby(['experience level'])['experience level'].count().sort values(ascending=False
     experience level
    Mid-Senior level
     Entry level
     Associate
    Name: experience level, dtype: int64
```

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#### **Data Visualization 1**

- The dataset included columns for "max\_salary", "min\_salary", and "med\_salary".
- Many values were NaN values that I had to replace with 0.
- I also changed the column type from object to int64 and created a new column which was the average of all 3 numbers for each job posting range.
- The bar chart showcases the average hourly salary for Data Analyst job postings in the data set by experience level.

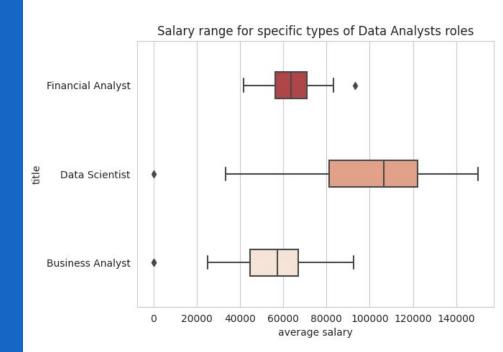






#### **Data Visualization 2**

- The dataset was then filtered for 3 specific types of Data Analyst roles: Financial Analyst, Data Scientist, and Business Analysts.
- The box plot chart showcases the average salary range for all job postings containing these roles in the title column.



# The End.