**Project Title –** Data Science – A deep dive

**Team –**

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**Project Description –**

With the increase in data and data science skills in the job market, this project aims to look at the data from various job boards and build visualizations on how the job market has changed over time and where data science skills stand in the job market.

**Research Questions to Answer-**

1. How has the demand in data Science jobs changed over time?
   * Combined dataset
   * Line
2. ~~Any correlation between industries and skills --Which industries uses data Science technologies the most?~~
3. New question

Percentage of Skills in the Data Science Field

* + Indeed Dataset
  + Pandas groupby and sum values
  + Pie charts -multiple different types of industries
    - Combine industries (Industrial type of work)

1. Any specific correlation between location and DS jobs? (Use Combined Dataset)
   * Include Heat Maps from google maps (Lat and Lng) City
   * Scatter -State
   * Plot based on State
   * State on x-axis and Number of jobs in y-axis
2. Analyze various job categories/roles pertaining to DS? (eg. Part-time/Full time; Data Engineer/Data Analyst/Data Scientist etc)
   * Combined dataset
   * Bar
   * Subplot – based on roles Data analyst , engineer, lead…
   * Data needs to be cleaned to be combined
3. ~~Is there any relationship between educational background and DS job listings?~~
4. Comparison between DS jobs listed in different job boards.
   * Combined Dataset
   * Bar or Pie
5. What is the Salary Range for DS jobs , and does it vary between locations? (Indeed)
   * Job Type field
   * Salary Range as labels use of Bar graph

**Data Set to be used (subject to change) -**

1. Indeed
2. Dice
3. ~~Linkedin~~
4. Kaggle
5. Data.world
6. ~~Statista~~

**Breakdown of Tasks –**

1. Identify Data sets from data sources and finalize.
2. Data Retrieval and Clean-up
3. Data Analysis and manipulation
4. Visualizations and Questions/Answers
5. Final Presentation