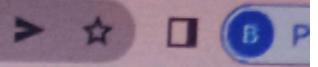


Project Flow

To accomplish this, we have to complete all the activities listed below,

- Define Problem / Problem Understanding
 - Specify the business problem
 - Business requirements
 - Literature Survey
 - Social or Business Impact.
- Data Collection & Extraction from Database
 - Collect the dataset,
 - Storing Data in DB2
 - Perform SQL Operations
 - Connect DB2 with Cognos
- Data Preparation
 - Prepare the Data for Visualization
- Data Visualizations
 - No of Unique Visualizations
- Dashboard
 - Responsive and Design of Dashboard
- Story
 - No of Scenes of Story



- Storing Data in DB2
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 - Responsive and Design of Dashboard
- Story
 - No of Scenes of Story
- Report
 - No of Visualization with detail information
- Performance Testing
 - Amount of Data Rendered to DB2
 - Utilization of Data Filters
 - No of Calculation Fields
 - No of Visualizations/ Graphs
- Web Integration
 - Dashboard, Report and Story embed with UI With Flask
- Project Demonstration & Documentation
 - Record explanation Video for project end to end solution

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Define Problem / Problem Understanding

A problem statement is a clear and concise description of the issue or challenge that needs to be addressed. It should define the problem in a way that is understandable to stakeholders and provide a basis for developing a solution or course of action.

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Specify The Business Problem

Refer Project Description

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Business Requirements

Understanding the data of different jobs provided by glassdoor can help businesses and personnel to analyze current market trends in hiring, packages offered, etc. Businesses need to understand the glassdoor jobs data in order to get valuable insights. Job analysis is a crucial step in validating all major personnel activities. Employers must be able to show that their screening tools and appraisals are actually related to performance on the job in question. Doing this, of course, requires knowing what the job entails, which in turn requires a competent job analysis. The ultimate goal is to gain insights and improve performance through data visualization techniques.

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Literature Survey

A literacy survey for Data Analysis of Glassdoor Jobs involves reviewing multiple job roles in a particular domain offered by a particular organisation belonging to a given industry and sector. Job analysis defines the organization of jobs within a job family. It allows units to identify paths of job progression for employees interested in improving their opportunities for career advancement and increasing compensation.



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Social Or Business Impact

Social Impact: This project can help job seekers make more informed decisions about their careers and negotiate for better compensation and working conditions. This can ultimately contribute to greater economic mobility and reduce income inequality.

Business Model/Impact: It can help to improve retention rates, reduce turnover costs, and increase productivity. An analysis of Glassdoor jobs can provide insights into what employees value most, helping employers to create a better work environment that attracts and retains top talent.

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Data Collection & Extraction From Database

Data collection is the process of gathering and measuring information on variables of interest, in an established systematic fashion that enables one to answer stated research questions, test hypotheses, and evaluate outcomes and generate insights from the data.

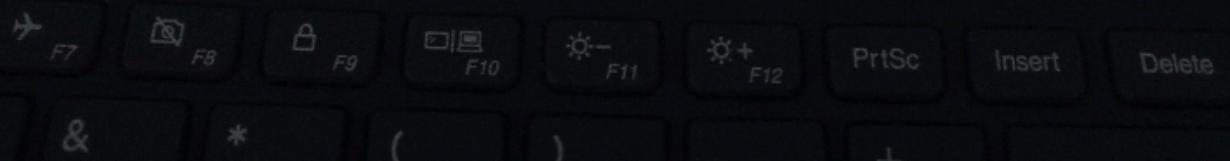
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Data Preparation

Data modules are containers that describe data and rules for combining and shaping data to prepare it for analysis and visualization in IBM Cognos Analytics. Data module sources. Data modules can be based on data servers, packages, uploaded files, data sets, and other data modules



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Prepare The Data For Visualization

Explanation video link

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Data Visualization

Data visualization is the process of creating graphical representations of data in order to help people understand and explore the information. The goal of data visualization is to make complex data sets more accessible, intuitive, and easier to interpret. By using visual elements such as charts, graphs, and maps, data visualizations can help people quickly identify patterns, trends, and outliers in the data.



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Dashboard

A dashboard is a graphical user interface (GUI) that displays information and data in an organized, easy-to-read format. Dashboards are often used to provide real-time monitoring and analysis of data, and are typically designed for a specific purpose or use case. Dashboards can be used in a variety of settings, such as business, finance, manufacturing, healthcare, and many other industries. They can be used to track key performance indicators (KPIs), monitor performance metrics, and display data in the form of charts, graphs, and tables.

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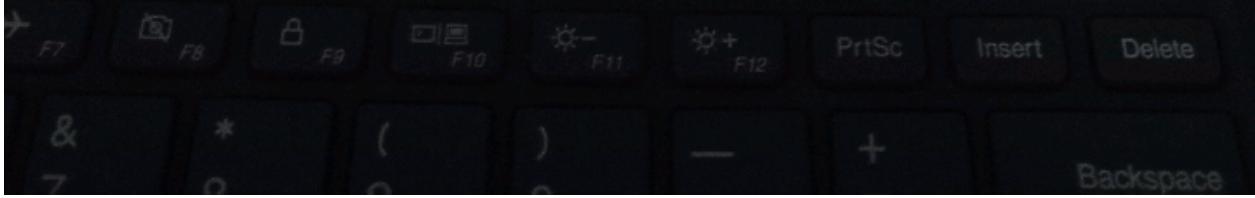
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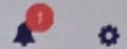
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Responsive And Design Of Dashboard

The responsiveness and design of a dashboard for Data-Driven insights on Student Performance is crucial to ensure that the information is easily understandable and actionable. Key considerations for designing a responsive and effective dashboard include user-centered design, clear and concise information, interactivity, data-driven approach, accessibility, customization, and security. The goal is to create a dashboard that is user-friendly, interactive, and data-driven, providing actionable insights.

[Explanation video link](#)

Overview Company Job Title Jobs Analysis +

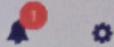
JOBS DATA ANALYSIS



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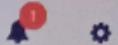
https://drive.google.com/file/d/1qhu7OcB9o8ppDFJPkBkPB9Rg5BIADHre/view?usp=share_link



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Story

A data story is a way of presenting data and analysis in a narrative format, with the goal of making the information more engaging and easier to understand. A data story typically includes a clear introduction that sets the stage and explains the context for the data, a body that presents the data and analysis in a logical and systematic way, and a conclusion that summarizes the key findings and highlights their implications. Data stories can be told using a variety of mediums, such as reports, presentations, interactive visualizations, and videos.



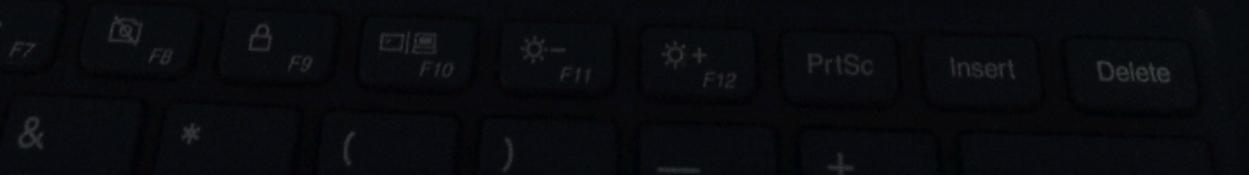
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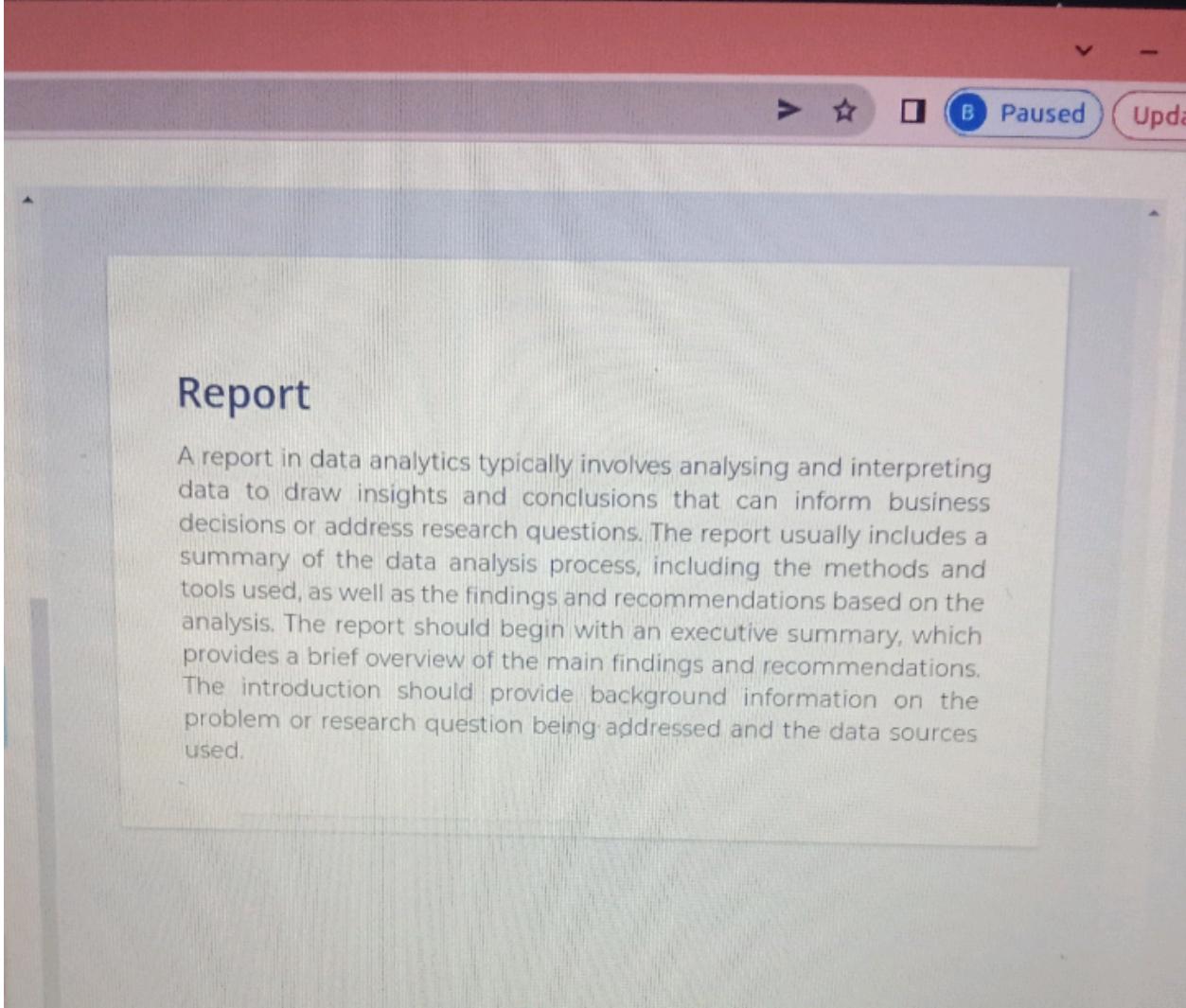


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Report

A report in data analytics typically involves analysing and interpreting data to draw insights and conclusions that can inform business decisions or address research questions. The report usually includes a summary of the data analysis process, including the methods and tools used, as well as the findings and recommendations based on the analysis. The report should begin with an executive summary, which provides a brief overview of the main findings and recommendations. The introduction should provide background information on the problem or research question being addressed and the data sources used.

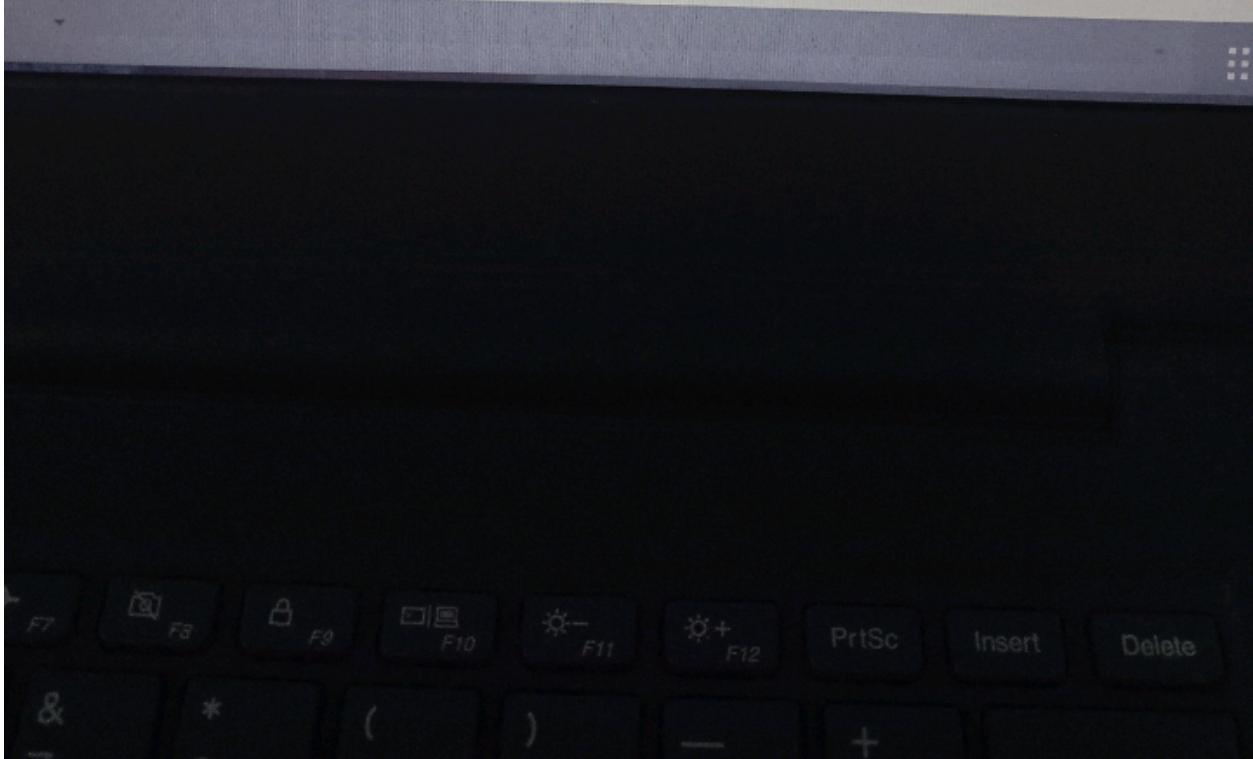


A screenshot of a mobile browser displaying a video player. The video player has a blue header bar with icons for play, pause, and volume. The word "Paused" is visible in the center of the bar. Below the header is a large blue progress bar with a white play button icon in the middle. The main content area of the browser shows the word "Report" in bold blue text.

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Report

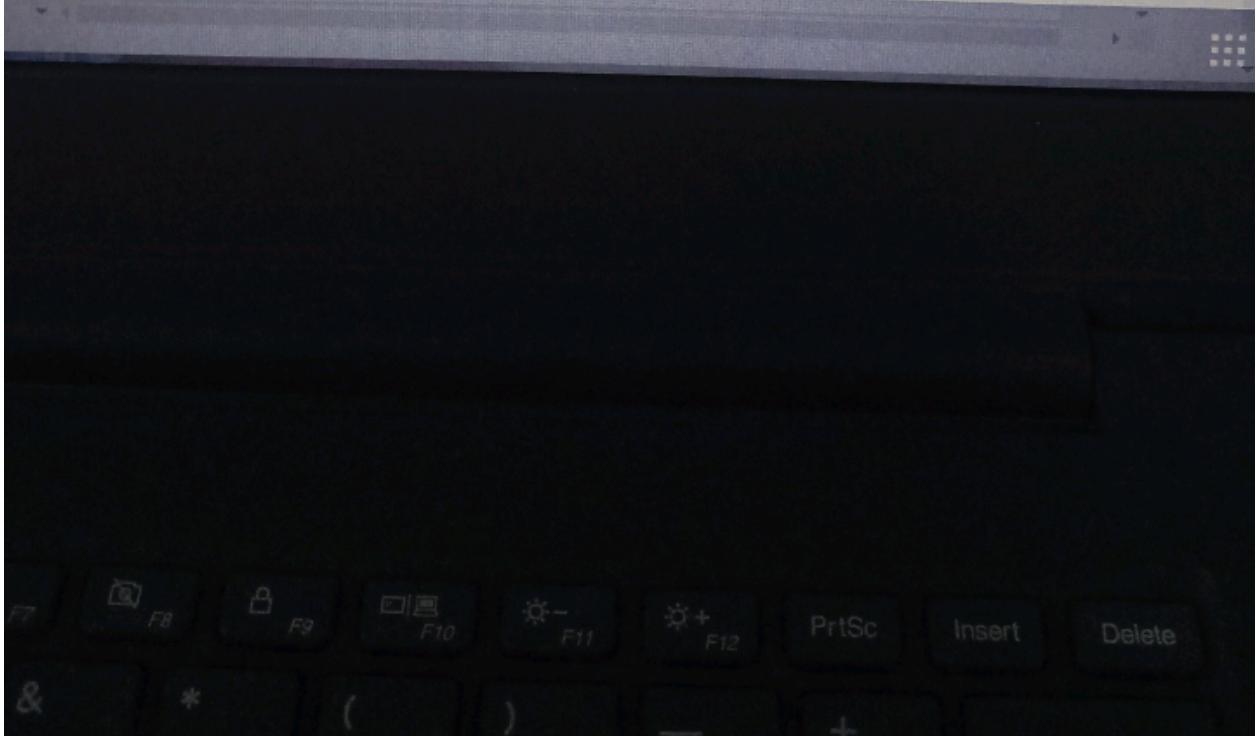
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No Of Visualization With Detailed Information

When creating a report in Cognos, it is often helpful to include visualizations to help communicate the findings of the analysis.
[Explanation video link](#)

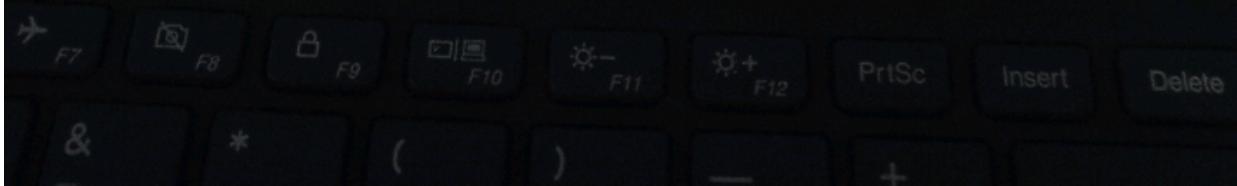


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Performance Testing

We'll be testing the performance of our project.



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Amount Of Data Rendered To DB2

The amount of data that is rendered to a database depends on the size of the dataset and the capacity of the database to store and retrieve data.

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Amount Of Data Rendered To DB2

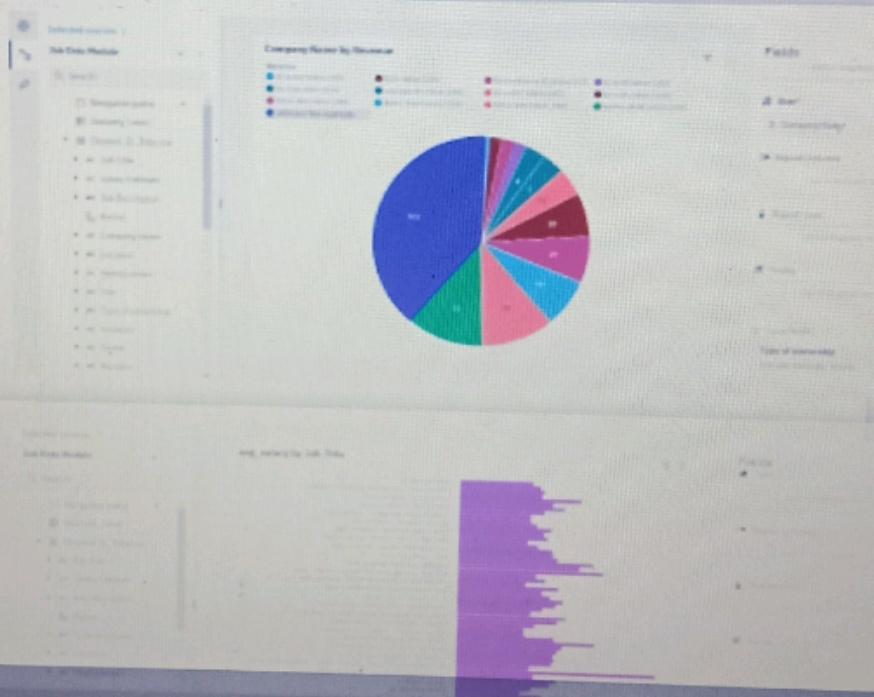
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Utilization Of Data Filters



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No Of Calculation Fields

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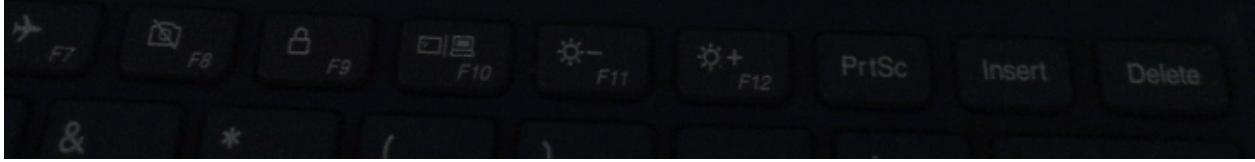
Job Data Module

Q Search

Navigation paths

Seniority_Level

- Cleaned_D...Jobs.csv
 - > ** Job Title
 - > ** Salary Estimate
 - > ** Job Description
 - > Rating
 - > ** Company Name
 - > ** Location
 - > ** Headquarters
 - > ** Size
 - > ** Type of ownership
 - > ** Industry
 - > ** Sector



No Of Visualizations/ Graphs

1. What is salary trend for a particular job title?
2. No of companies belonging to different Sector
3. How many companies belongs to the particular location?
4. what's the distribution of companies according to the type of owner?
5. Most popular sector on glassdoor for data science domain
6. Top 10 rated jobs
7. Which Industry is offering more job roles
8. Which state is providing more opportunities
9. Show job titles from different category
10. Compare salary trend of different industry
11. Top 10 highest paying jobs from different states
12. what is the avg_salary of Job Title belonging from particular Location
13. What is the revenue generated by companies that falls under particular category of ownership
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Report
Embed

Search

Web Integration

Publishing helps us to track and monitor key performance metrics, to communicate results and progress, help a publisher stay informed, make better decisions, and communicate their performance to others.

Publishing dashboard, report & story.

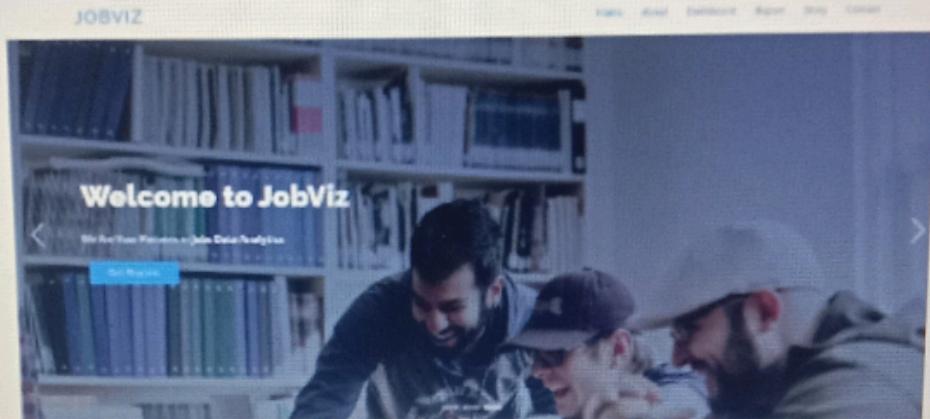
Step 1: Go to Dashboard, report & /story, click on share button on the top.

Dashboard

The screenshot shows a publishing dashboard interface. In the center, there's a large blue card with the text 'JOBS D' and the number '168'. To its right, another card shows the number '58' with the word 'ANALYSIS' above it. A 'Share' dialog box is overlaid on the dashboard, containing fields for 'Title', 'Link', and 'Description', along with a 'Share' button at the bottom. On the left side of the screen, there's a vertical sidebar with several red buttons labeled: 'With n', 'Filters', 'Fields', 'ns/', 'port And h UI', 'Report Embed', and 'Search'. At the bottom of the screen, there's a dark keyboard overlay showing keys like F7 through F12, Insert, and various symbols and numbers.

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Dashboard, Report And Story Embed With UI With Flask



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https://drive.google.com/file/d/1QLKMzREVtbsyTOXwEWAQEFTF1siEOJHm/view?usp=share_link



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Project Demonstration & Documentation

Below mentioned deliverables to be submitted along with other deliverables

Activity 1:- Record explanation Video for project end to end solution

Activity 2:- Project Documentation-Step by step project development procedure

Create document as per the template provided

