

Exploring Data-Related Jobs

M. Fauzan Rizky Ramadhan



Outline

Problem Identification

Data Gathering

Data Cleaning & Manipulation

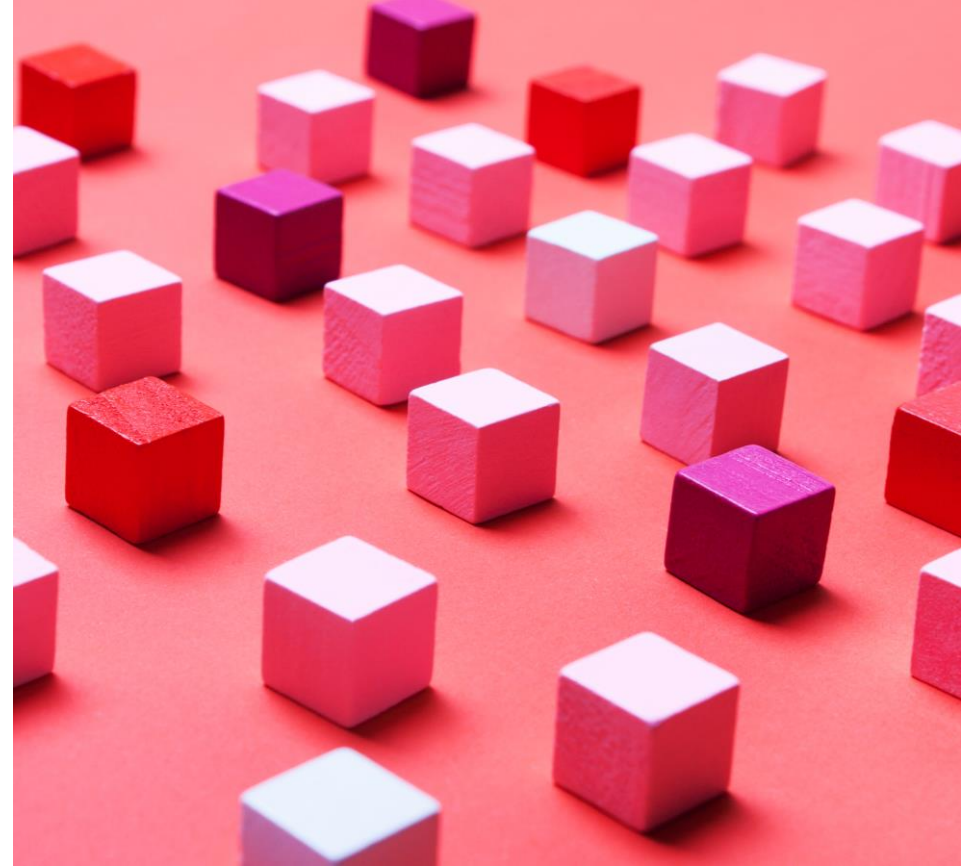
Visualizing

Insights

Problem Identification

Investigate what skills are most in-demand in data-related fields (Data Scientist, Data Analyst, Data Engineer, Business Intelligence)

- What skills are most in-demand?
- Are there any skillsets difference between roles?





Data Gathering



	Data 1	Data 2
Data Name	Data Analyst Job Postings [Pay, Skills, Benefits]	Linkedin Data Engineer Job Postings
Data Source	<u>Data Analyst Job Postings [Pay, Skills, Benefits] (kaggle.com)</u>	<u>Linkedin Data Engineer Job Postings (kaggle.com)</u>
Data Characteristics	48,619 rows and 27 columns, available from November 4 th ,2022 to may 18 th , 2024	6024 rows and 11 columns, available in December, 2023

Data Gathering

Data Cleaning & Manipulation with Jupyter Notebook (python)

Steps

- Download and explore both datasets
- Explore datasets (missing values, duplicates)
- Data Cleaning & Manipulation:
 - Remove Unwanted Columns
 - Formatting data entries
 - Adjust (add, drop, manipulate) columns to same format
- Concatenate datasets



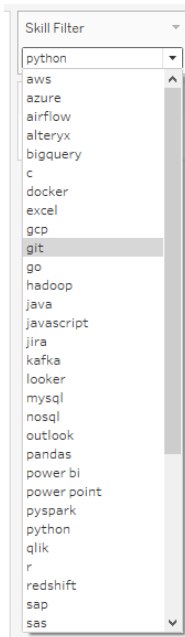
[mini-projects/Analyzing Job Market Data/data_cleaning.ipynb at main · fauzanrrizky/mini-projects \(github.com\)](https://github.com/fauzanrrizky/mini-projects/blob/main/Data/data_cleaning.ipynb)

Visualizing Data



Dashboard Overview

Skill Filter



Job Title Filter:

- Business Intelligence
- Data Analyst
- Data Engineer
- Data Scientist
- Other

Job Posting Media Filter:

- LinkedIn
- Indeed
- BeBee
- Etc.

Job Type Filter:

- Hybrid
- Onsite
- Remote

Job Level Filter:

- Internship & Entry Level
- Associate
- Mid Senior
- Director & Executives

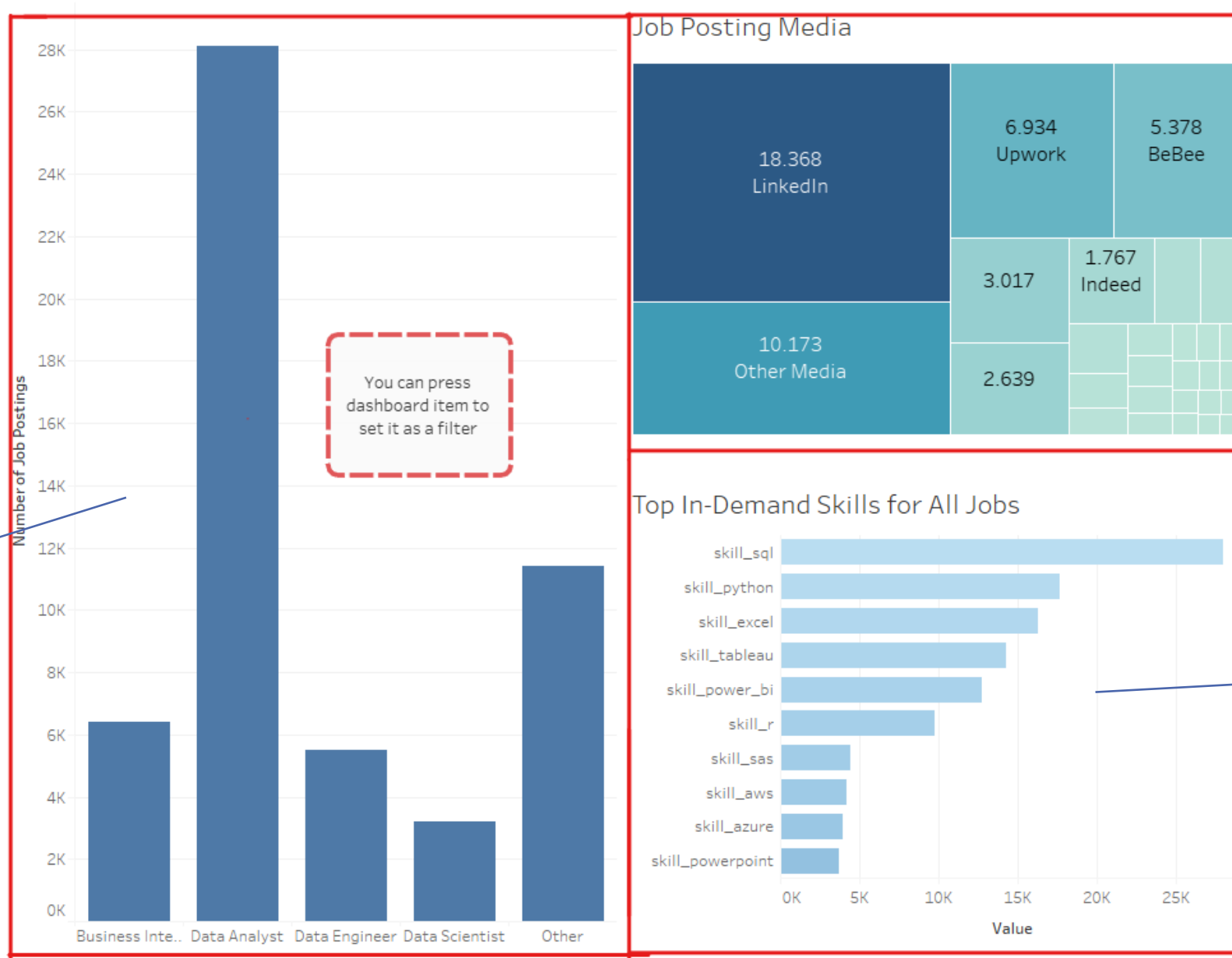


Interactive dashboard

Access the dashboard here!

[Exploring Data-Related Jobs | Tableau Public](#)

Number of job postings for different roles within the data domain.



Distribution of job postings across various media platforms.

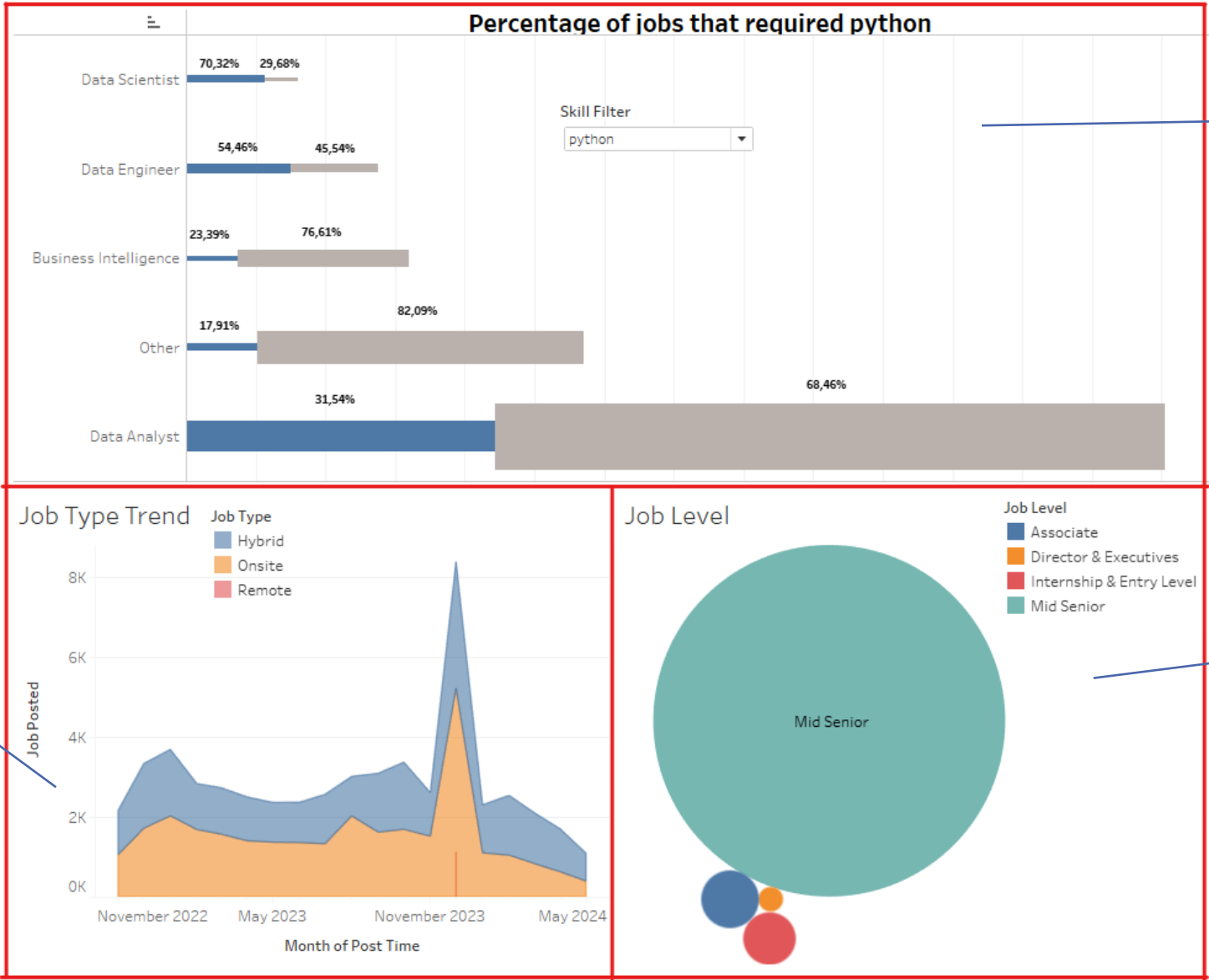
Top skills required for jobs in the dataset. Dynamically change as user choose different job tittle

Interactive dashboard

Access the dashboard here!

[Exploring Data-Related Jobs | Tableau Public](#)

Trend of job postings over time categorized by job type: Hybrid, Onsite, and Remote. The chart highlights variations in job type preferences over time, with a noticeable peak in hybrid job postings around November 2023.



Displays the percentage of job postings requiring X across different roles. For each role, the chart shows two segments: one for jobs that require X (colored in blue) and one for jobs that do not require X (colored in gray).

The distribution of job postings across different job levels. The size of each bubble corresponds to the number of job postings for that level.



Insights Uncovered

- SQL is the most demanded skill in data related field
- Mid Senior job positions dominate the market for data field
- Varying skill demand across roles:
 - Data Scientist: Python, SQL, R
 - Data Engineer: SQL, Python, AWS
 - Data Analyst: SQL, Excel, Python
 - Business Intelligence: SQL, Power BI, Excel
- Most role (except data engineer) have numerous openings on LinkedIn

Thank you



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[LinkedIn](#)

My Projects

All

Data Analytics

Data
Science/ML

Others



Analyzing Customer Churn

Tableau Excel

I Investigated a fictional telecom company called Databel. I analyzed why customers are churning and how to potentially reduce churn using Tableau and Excel.

Demo Tableau

Demo Excel

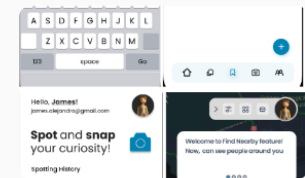


Analyzing Job Market Data

Tableau

I Investigated a fictional recruitment company to investigate what skills are most in-demand for data scientists, data analysts, and data engineers.

Demo



Personalized Travel App

Figma UI/UX

Making a Prototype of a personalized travel app with chatbot, vacation planner, and other interesting features with Figma.

Demo

My other works: [Fauzan's Portfolio \(fauzanrrizky.github.io\)](https://fauzanrrizky.github.io)