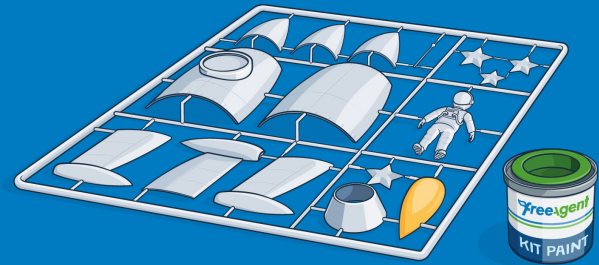


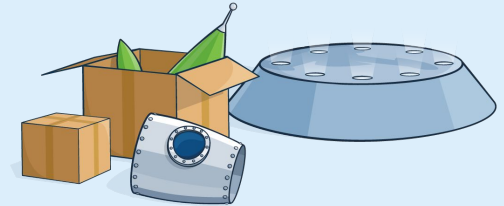
Google Colab

A col(l)ab between Data Analytics and The People team



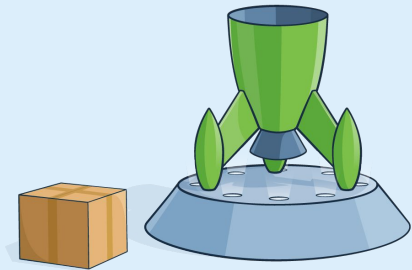
Staff Churn Analysis

- History
- What are we trying to achieve
- Why Google Colab
- Pros
- Cons

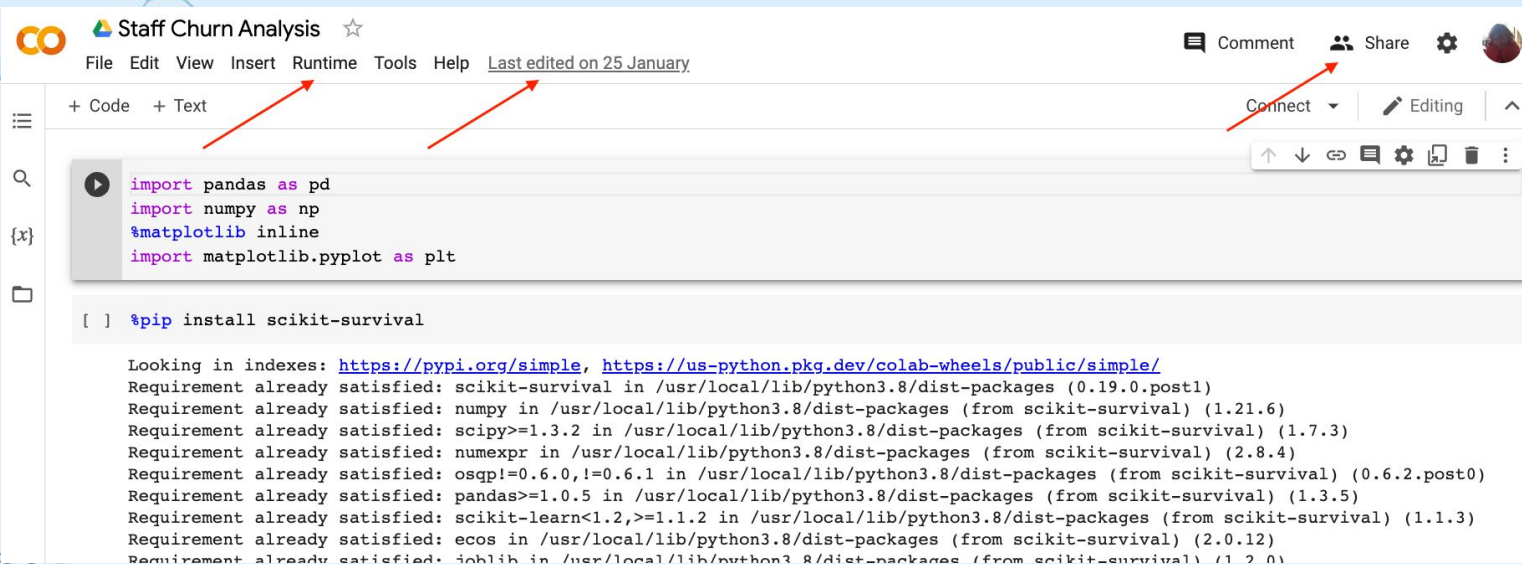


Staff Churn Analysis

- Staff Churn Analysis for engineering
- Staff Churn Analysis for the whole company
- KPIs
- Why Google Colab?



Google Colab



The screenshot shows a Google Colab notebook interface. At the top, the title 'Staff Churn Analysis' is followed by a star icon. The menu bar includes 'File', 'Edit', 'View', 'Insert', 'Runtime', 'Tools', 'Help', and a link 'Last edited on 25 January'. On the right, there are icons for 'Comment', 'Share', a settings gear, and a user profile. Below the menu, there are tabs for '+ Code' and '+ Text'. The main code area contains two cells. The first cell has a play button icon and contains the following Python code:

```
import pandas as pd
import numpy as np
%matplotlib inline
import matplotlib.pyplot as plt
```

The second cell contains a shell command:

```
[ ] %pip install scikit-survival
```

Below the code, the output of the second cell is displayed, showing the installation progress and requirements for scikit-survival. The output includes links to the PyPI and Colab wheels pages, and a list of requirements that are already satisfied in the current environment.

Looking in indexes: <https://pypi.org/simple>, <https://us-python.pkg.dev/colab-wheels/public/simple/>

Requirement already satisfied: scikit-survival in /usr/local/lib/python3.8/dist-packages (0.19.0.post1)

Requirement already satisfied: numpy in /usr/local/lib/python3.8/dist-packages (from scikit-survival) (1.21.6)

Requirement already satisfied: scipy>=1.3.2 in /usr/local/lib/python3.8/dist-packages (from scikit-survival) (1.7.3)

Requirement already satisfied: numexpr in /usr/local/lib/python3.8/dist-packages (from scikit-survival) (2.8.4)

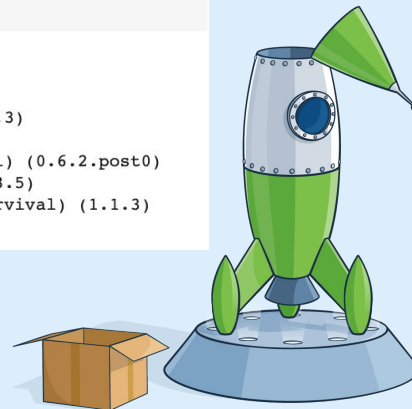
Requirement already satisfied: osqp!=0.6.0,!0.6.1 in /usr/local/lib/python3.8/dist-packages (from scikit-survival) (0.6.2.post0)

Requirement already satisfied: pandas>=1.0.5 in /usr/local/lib/python3.8/dist-packages (from scikit-survival) (1.3.5)

Requirement already satisfied: scikit-learn<1.2,>=1.1.2 in /usr/local/lib/python3.8/dist-packages (from scikit-survival) (1.1.3)

Requirement already satisfied: ecos in /usr/local/lib/python3.8/dist-packages (from scikit-survival) (2.0.12)

Requirement already satisfied: joblib in /usr/local/lib/python3.8/dist-packages (from scikit-survival) (1.2.0)



Google Colab

☐ Raw source ☐ Inline diff ☒ Show output

```
3 [redacted]
4 [redacted]e(creds)
5 [redacted]
6 [redacted]s()
7 [redacted]s())
```

Code cell <6vm_nwCpbSVw>
#%% [code]

```
1 [redacted]cted_o
2 [redacted]
3 [redacted]
4 [redacted]
5 [redacted]
6 [redacted]
7 [redacted]
```

```
3 [redacted]
4 [redacted]e(creds)
5 [redacted]
6 [redacted]s()
7 [redacted])
```

Code cell <6vm_nwCpbSVw>
#%% [code]

```
1 [redacted]cted_o
2 [redacted]
3 [redacted]
4 [redacted]
5 [redacted]
6+ #remove excluded rows
7+ df = df[df["Department"] != "Commercial Operation"]
8+
9 # format date columns
10 df["Start Date"] = df["Start Date"].astype(datetime)
```

☐ Only show named versions

25 Jan 2023 12:55

Veronika Szentesi

Pinned version

25 Jan 2023 12:34

Veronika Szentesi

Pinned version

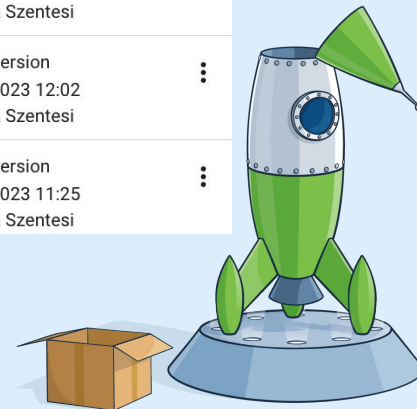
25 Jan 2023 12:02

Veronika Szentesi

Pinned version

25 Jan 2023 11:25

Veronika Szentesi



Pros and Cons

- Pros 😊
 - One or two clicks to get a sharable Python environment
 - Good range of pre-installed packages, and you can pip install
 - Easy to work with datasets stored in Google Sheets
 - Easy to share as you would any other Google document
- Cons 😬
 - Usual health warning! Not suitable for production code



Backup





Drive

Search in Drive



New folder

File upload

Folder upload

Google Docs

Google Sheets

Google Slides

Google Forms

More

Trash

Storage

17.55 GB used

survival analysis personal devel...



Google Drawings



Google My Maps



Google Sites



diagrams.net



Google Apps Script



Google Colaboratory



Google Jamboard



Connect more apps

