

# **ARR Term Rate Calculator Document**

UChicago Project Lab

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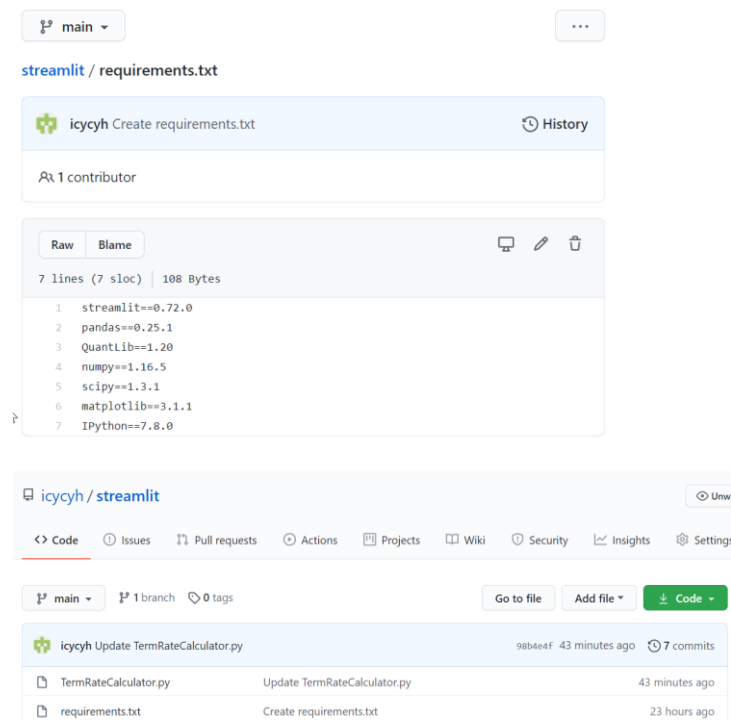
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# Part 1: First-time Deployment & Maintenance Guide for EY

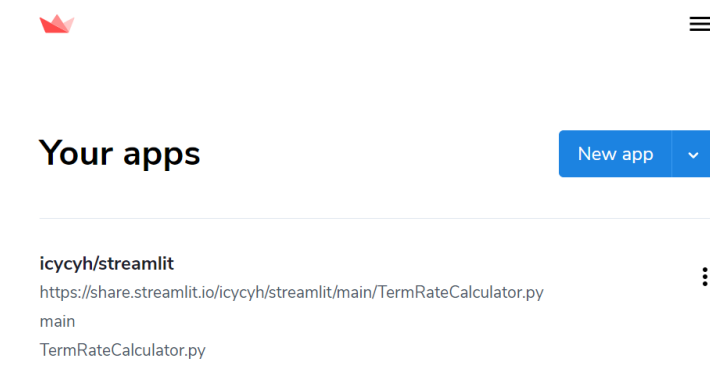
## Step 1: Put the Streamlit app on GitHub

- Put the main Streamlit app source code on GitHub
- Includes requirements.txt file which declares the packages required in the Streamlit app but are not distributed with a standard Python installation.



## Step 2: Log in to share.streamlit.io & Deploy the app

- Click “New app”
- Enter the location of the app in the GitHub repo. For our ARR Term Rate Calculator, the location is shown in the picture.



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## Deploy an app

Apps are deployed directly from their GitHub repo. Enter the location of your app below.

Or [click here to fork and deploy a sample app](#).

Repository	<a href="#">Paste GitHub URL</a>
	<input type="text" value="icycyh/streamlit"/>
Branch	
	<input type="text" value="main"/>
Main file path	
	<input type="text" value="/TermRateCalculator.py"/>
<input type="button" value="Deploy!"/>	

### Step 3: Share & Update

- The ARR Term Rate Calculator is now live at a fixed URL:  
<https://share.streamlit.io/icycyh/streamlit/main/TermRateCalculator.py> Everyone has access to it.
- The GitHub repository is the source for the app, so that means that any time you push an update to the repo, it will be reflected in the app in almost real time.

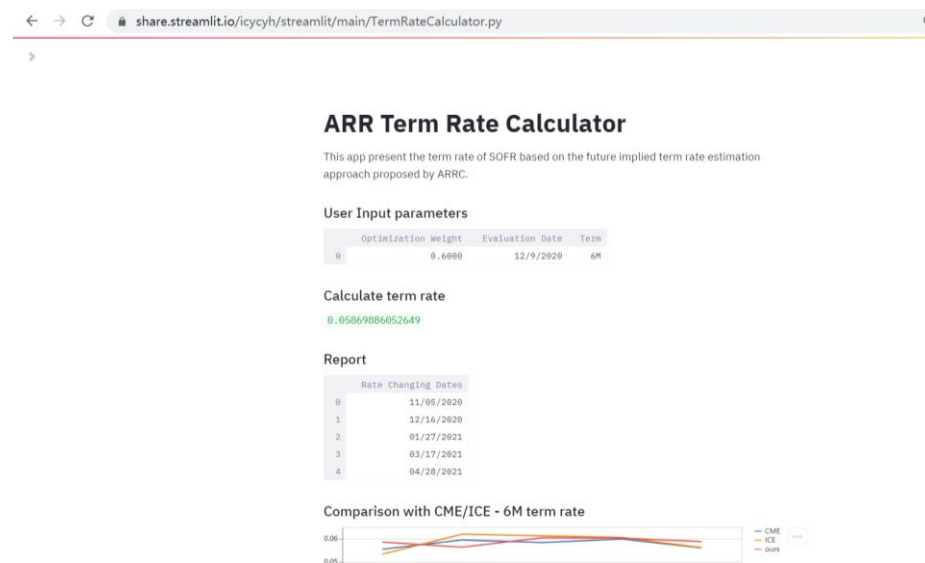
## Part 2: User Guide

### Step 1: Go to the website

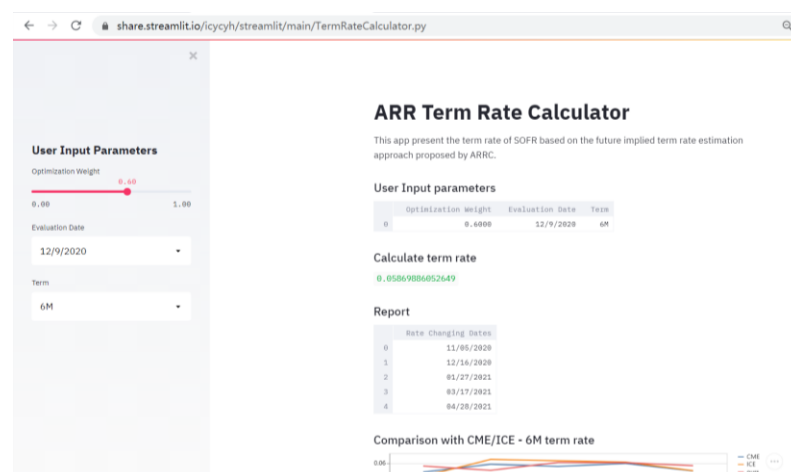
<https://share.streamlit.io/iccyh/termratecalculator/main/TermRateCalculator.py> (Using simulated data for two years)

or

<https://share.streamlit.io/iccyh/streamlit/main/TermRateCalculator.py> (Using real data for five days)



### Step 2: Click the arrow/cross mark on the top-left to show/hide the sidebar.



### Step 3: Set the User Input Parameters

The default parameters are shown below in the pictures. Users can click the slider or selectbox to choose the available parameters.

#### Step 4: Calculate the corresponding term rate

The corresponding term rate will be calculated automatically once you set the user input parameters, which is shown in the main part. For example, in the picture, The 6-month term rate at December 9<sup>th</sup> 2020 calculated with default optimization weight turns out to be 0.0587.

At the bottom of the webpage shows the comparison of term rate in the past five days between our calculation results and other sources.



#### Step 5: Choose period to see the term rate time series

