



StackOverflow Power Rankings

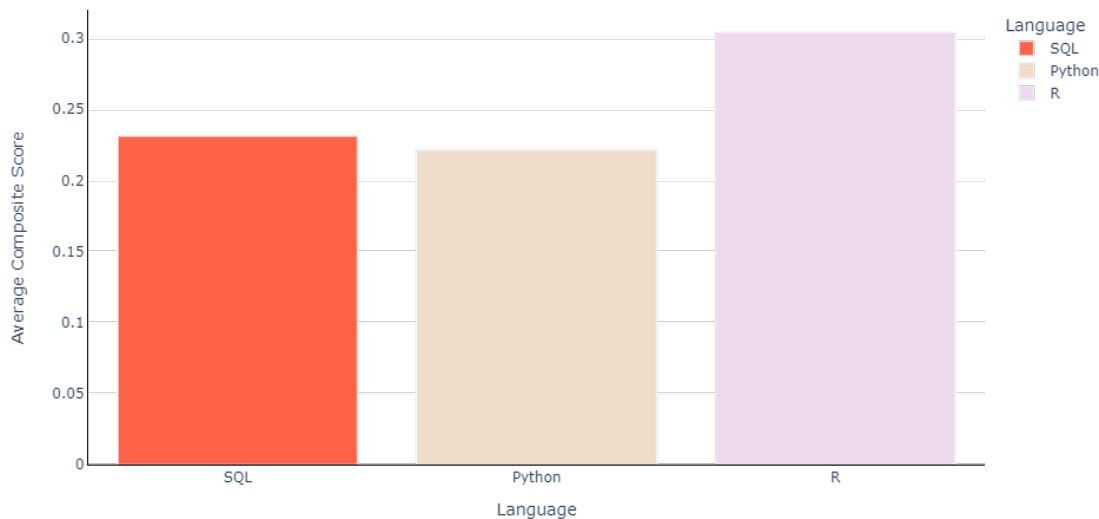
Orange Team 1

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Ishanee Rudra



Overview

1. We found **21** distinct topic clusters among Python, R, and SQL StackOverflow questions
2. We discovered that R has a **31.6%** higher average sentiment than Python





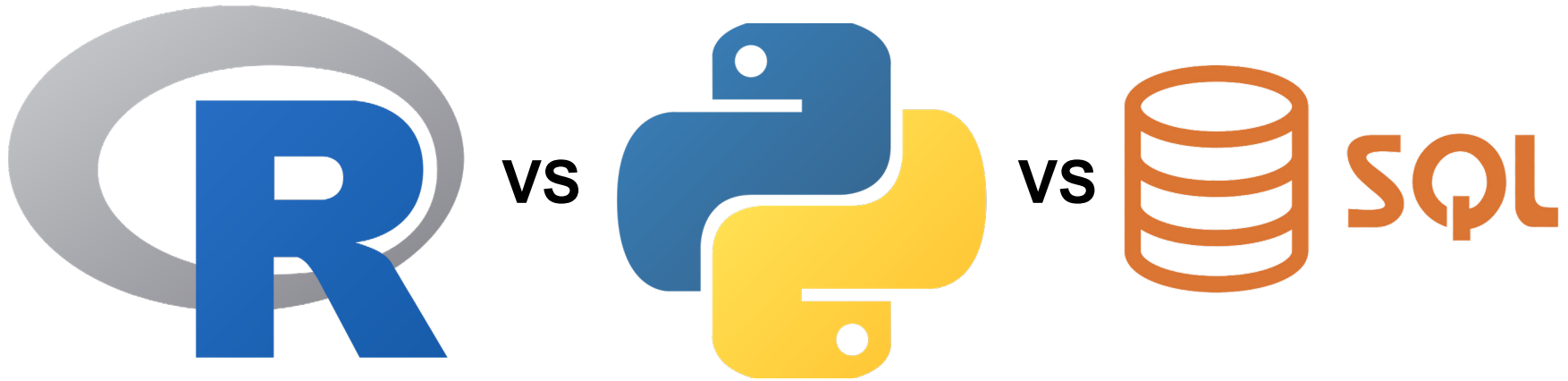
Agenda

1. StackOverflow Background
2. Project Plan
3. Topic Clustering
4. Sentiment Analysis
5. Conclusion





StackOverflow Dataset



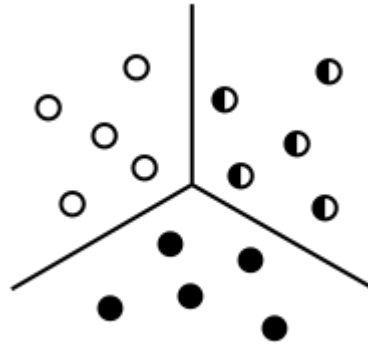


Project Plans



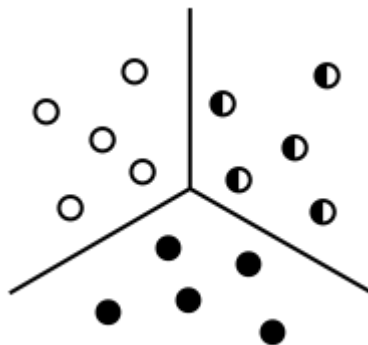


Project Plans

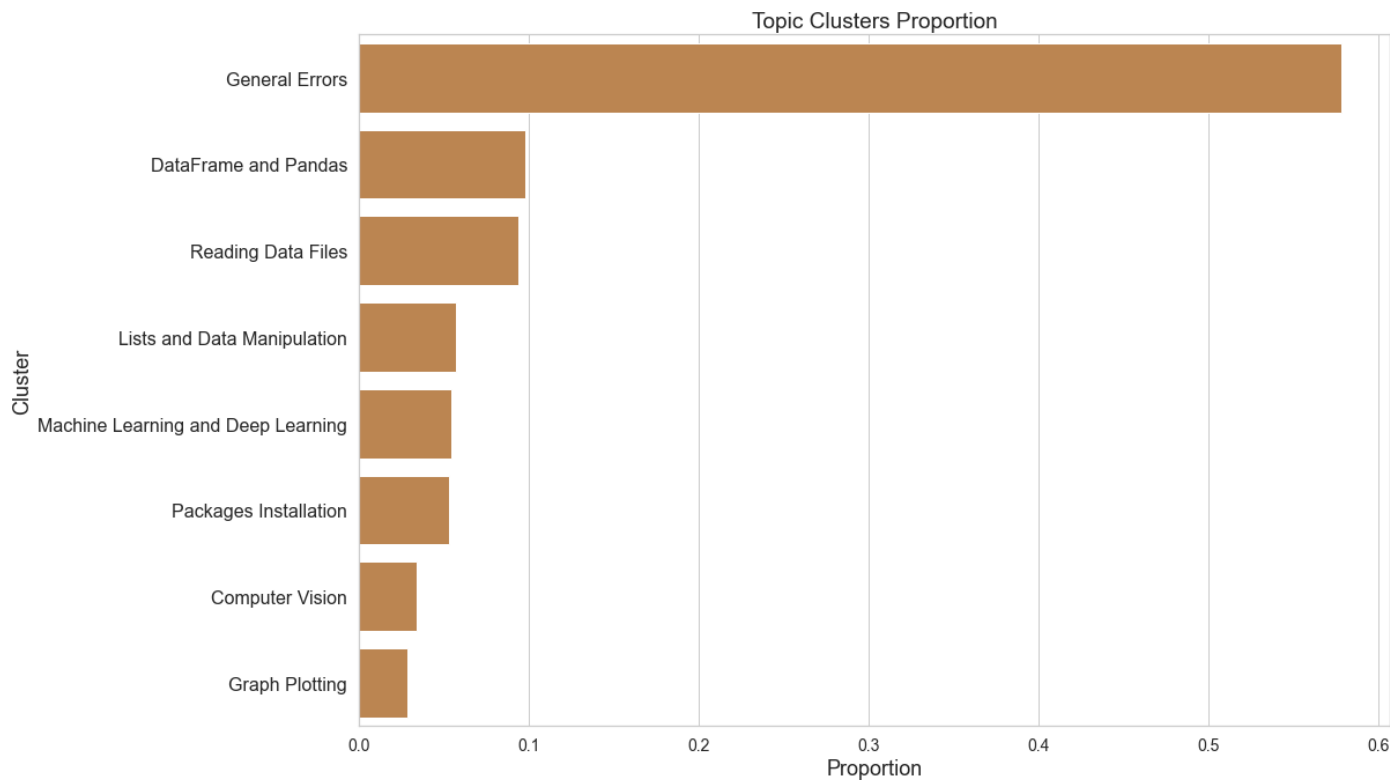




Project Plans



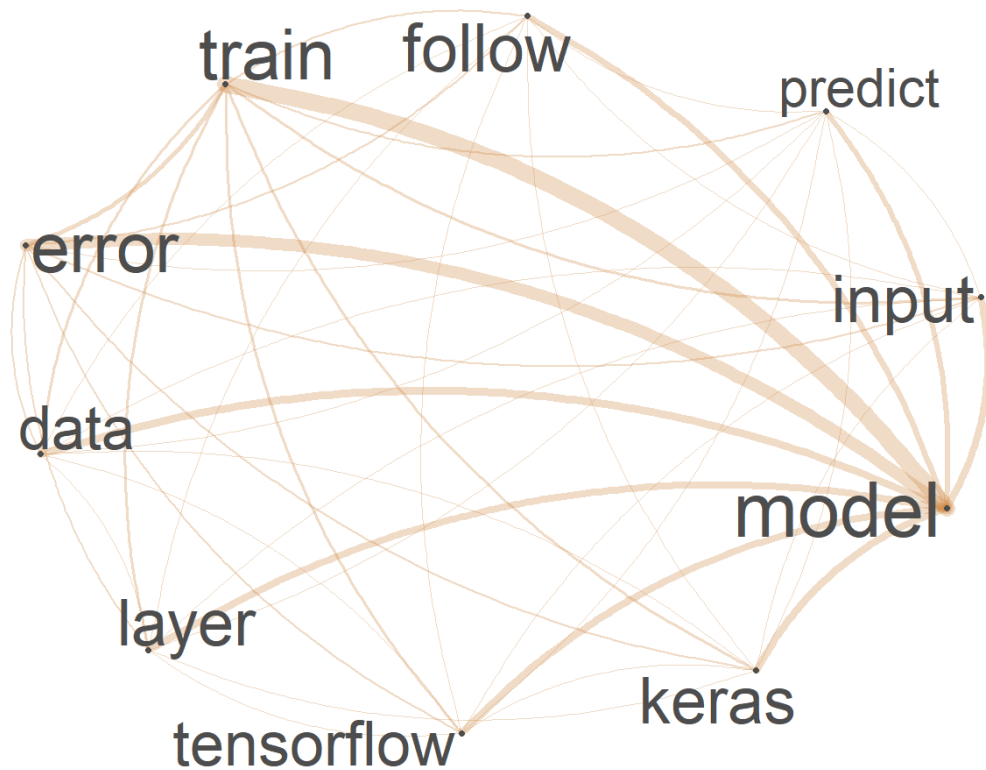
Topic Clustering - Python



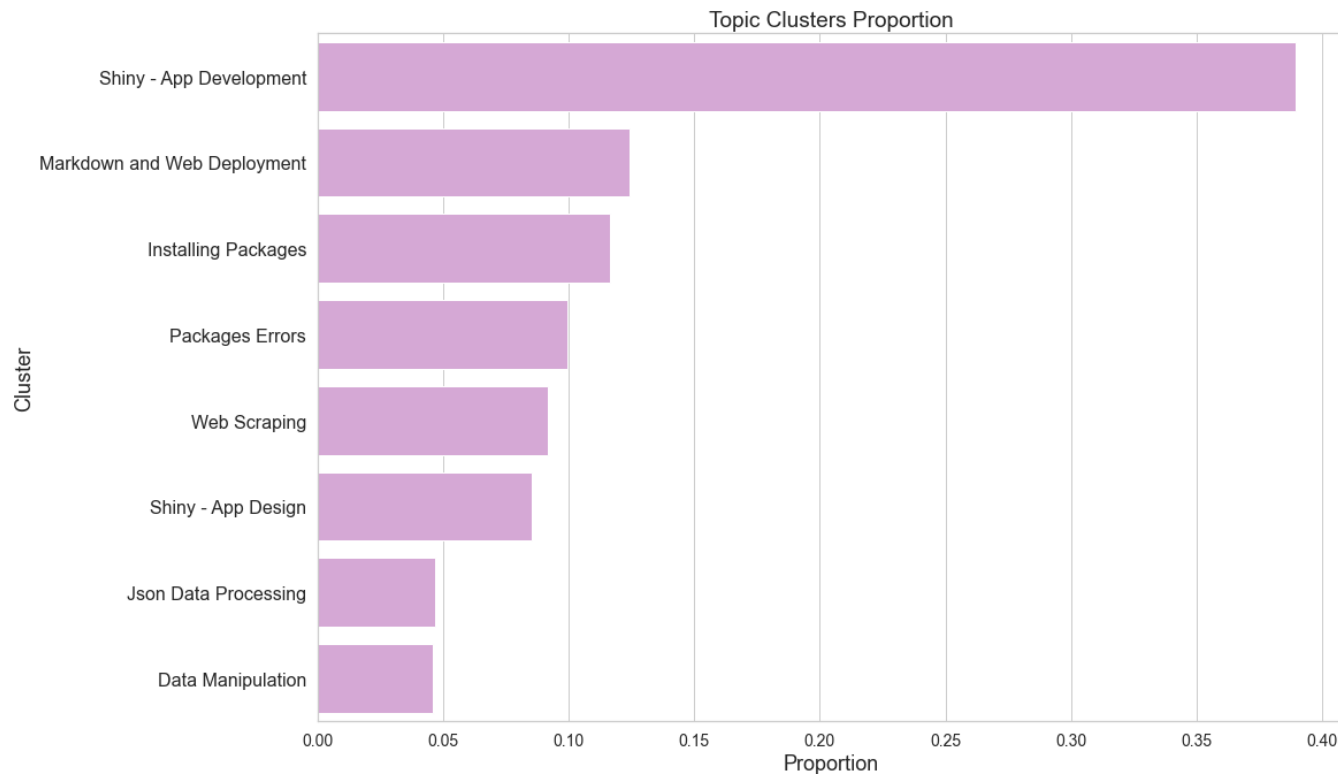
Topic Clustering - Machine Learning and Deep Learning

Example 1	Pytorch multilabel classification network not training
Example 2	TensorFlow 2.3: load model from ModelCheckPoint callback with both custom layers and model
Example 3	Making my Logistic Regression testing accuracy closer to my training accuracy with Python
Example 4	tf.keras.layers.BatchNormalization with trainable=False appears to not update its internal moving mean and variance
Example 5	My machine learning model keeps predicting the wrong thing even though it has a high accuracy

Topic Clustering - Machine Learning and Deep Learning



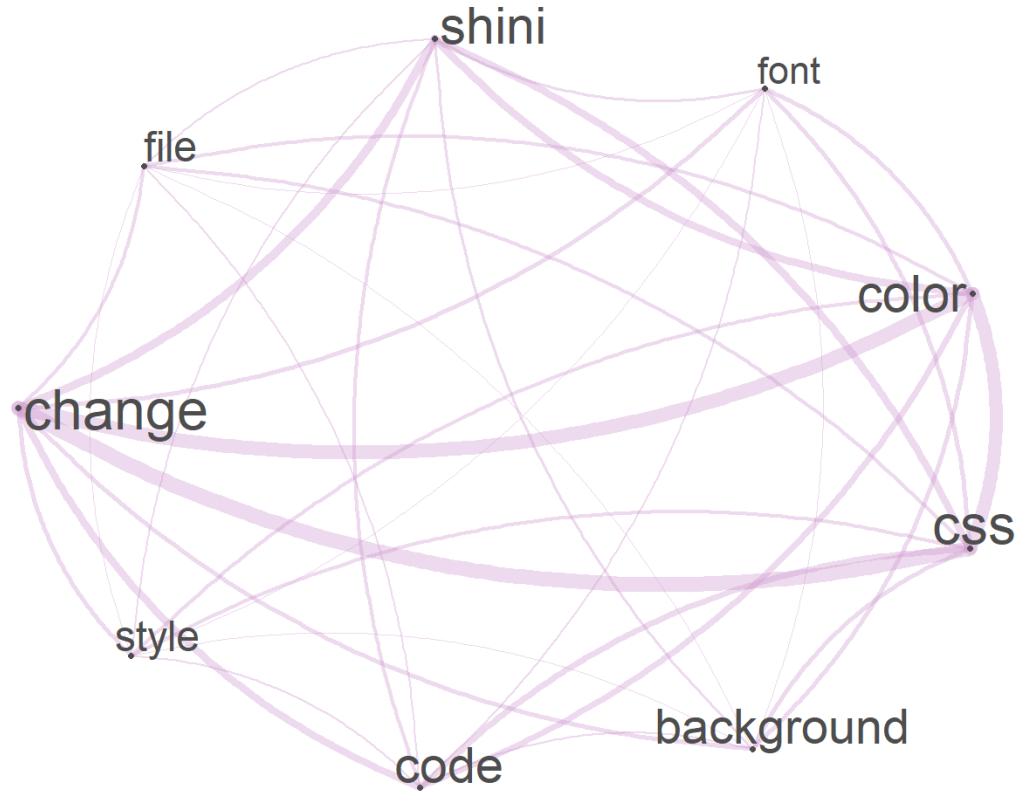
Topic Clustering - R



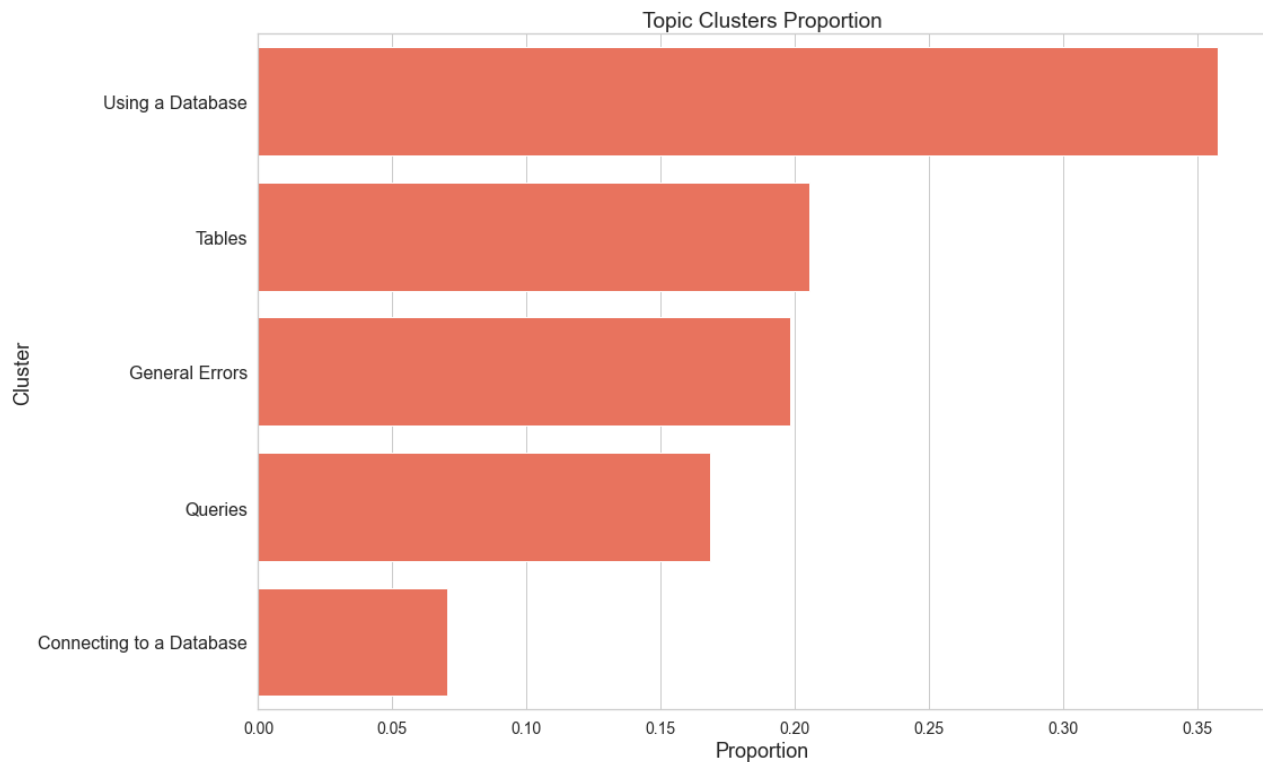
Topic Clustering - Shiny App Design

Example 1	How to change css in rmarkdown cell & shiny?
Example 2	Change color of a Shiny theme
Example 3	Use javascript to change the background color of selectinput in R shiny
Example 4	R shiny: change colour of individual check boxes in checkboxGroupInput
Example 5	Shiny: How to change the background colour of a button while it is clicked

Topic Clustering - Shiny App Design



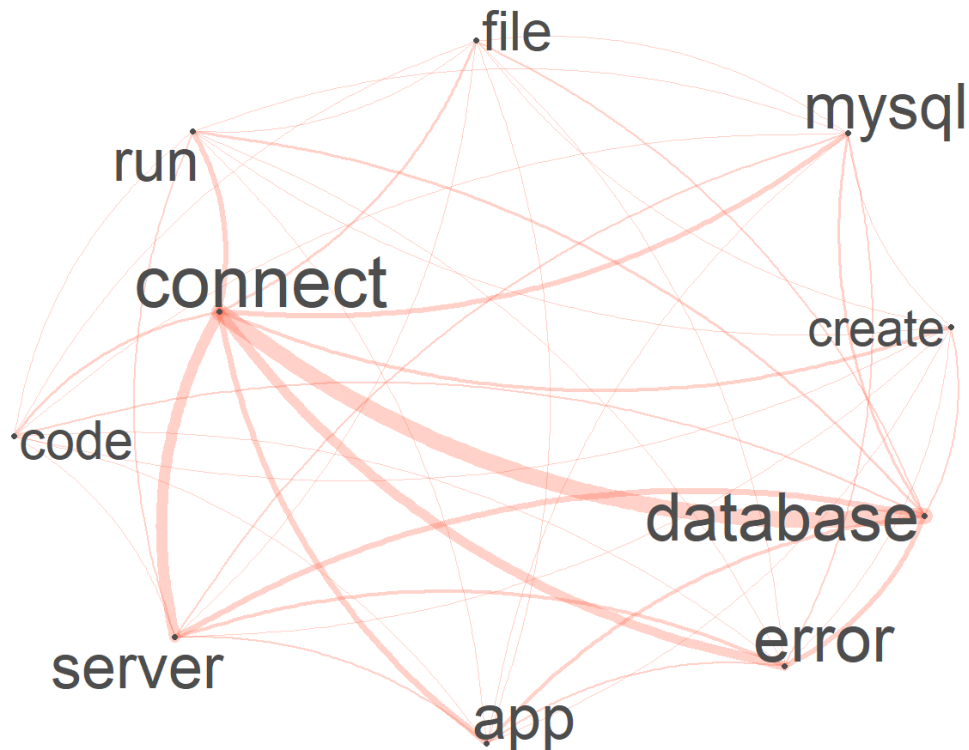
Topic Clustering - SQL



Topic Clustering - Connecting to a Database

Example 1	Cannot successfully Install mysql-server in WSL
Example 2	I'm can't connect MySQL.
Example 3	I'm getting below error connecting to Azure SQL Server database when using sql spark connector with DataBricks notebook.
Example 4	SSIS Server Maintenance Job Fail need your help on this
Example 5	Adding postgresql DB to travis It's my first time using any CI. I have used Travis. In current commit I added postgresql, but it is failing building

Topic Clustering - Connecting to a Database





Sentiment Analysis

Very Negative Question:

Chromedriver issue

ERROR

Very Positive Question:

Format data to create neat table in R markdown using kable

I want to create a neat table in R markdown using the kable package, but my data need to be transformed.

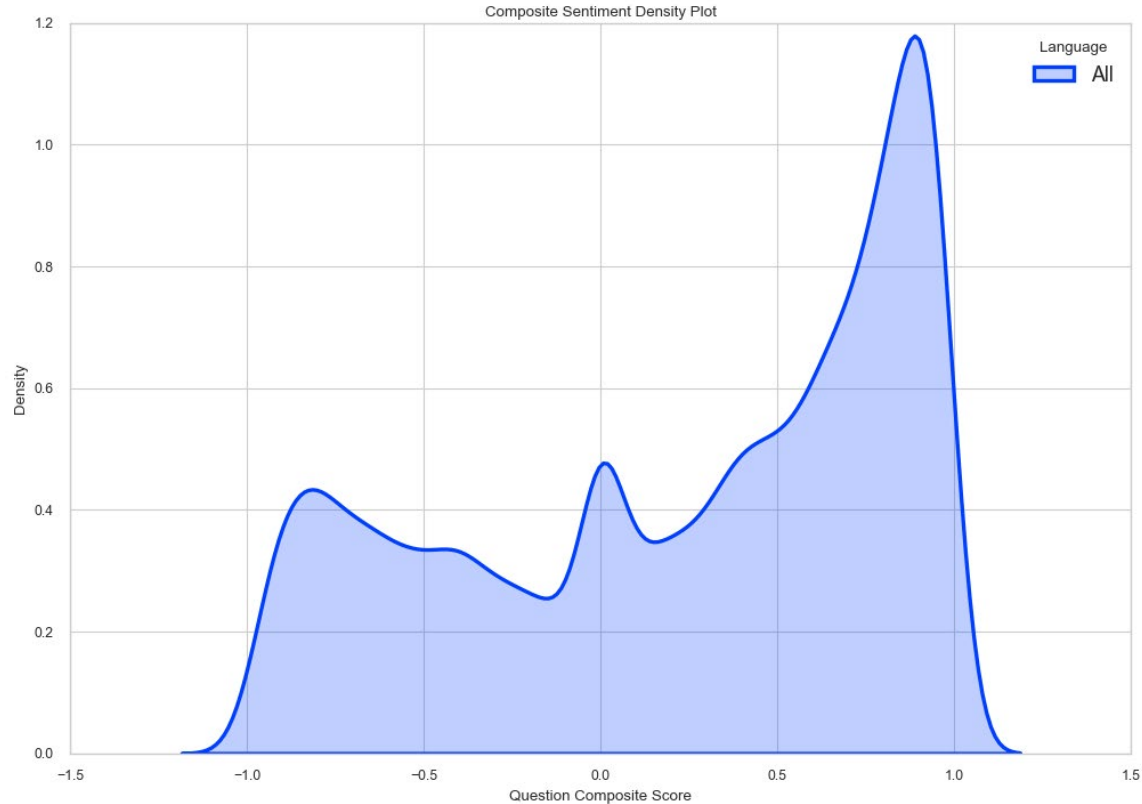
My data look like this:

I would like to create a table in R markdown that looks like this (but I welcome other suggestions):

Any ideas on how to solve this? I appreciate any help!

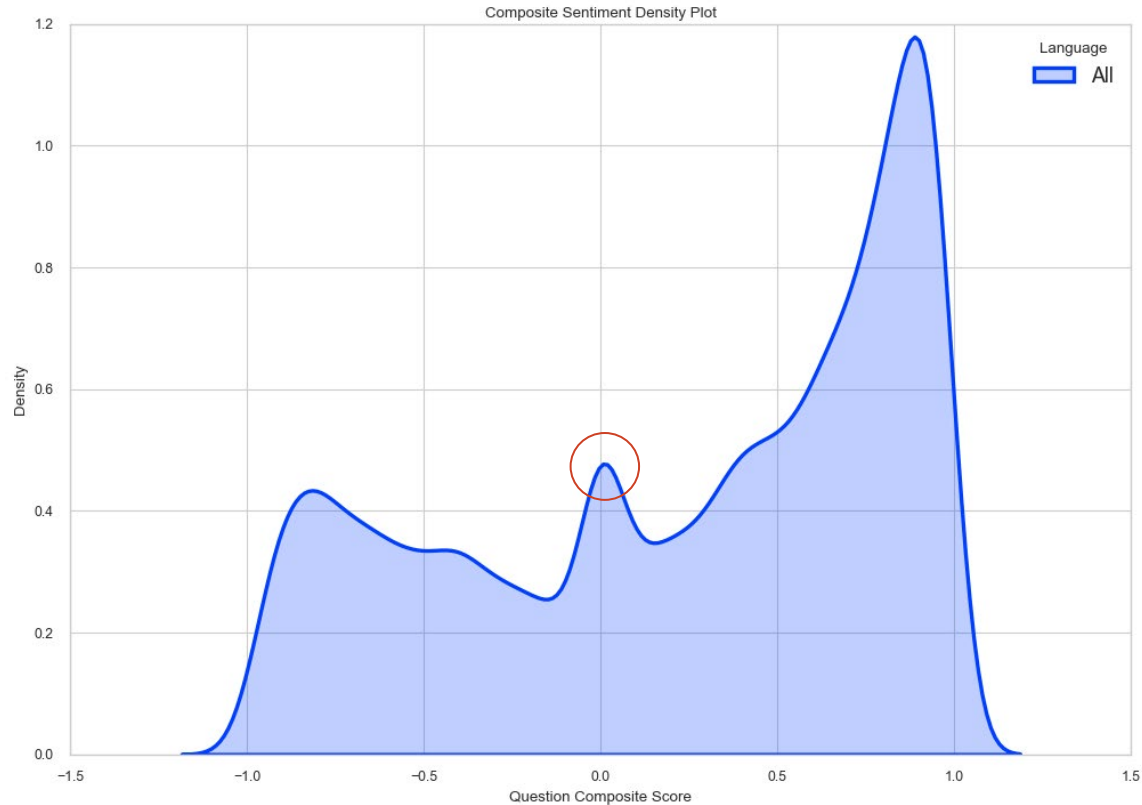


Sentiment Analysis



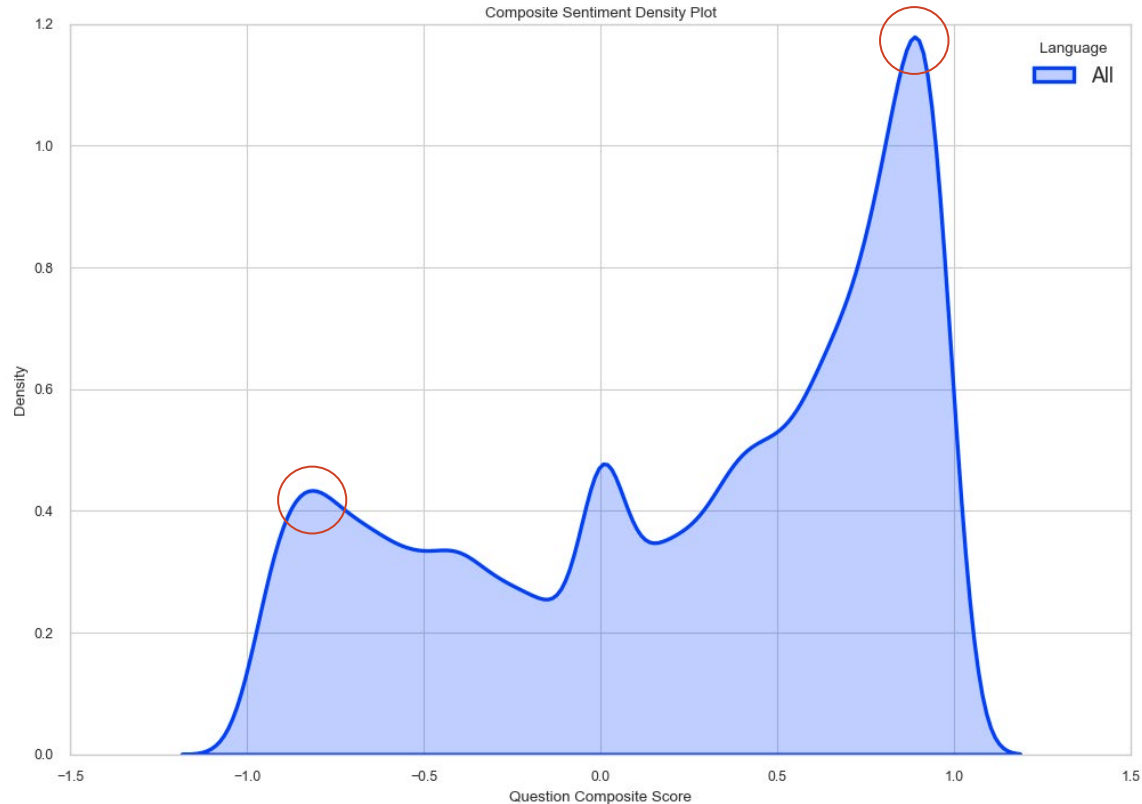


Sentiment Analysis



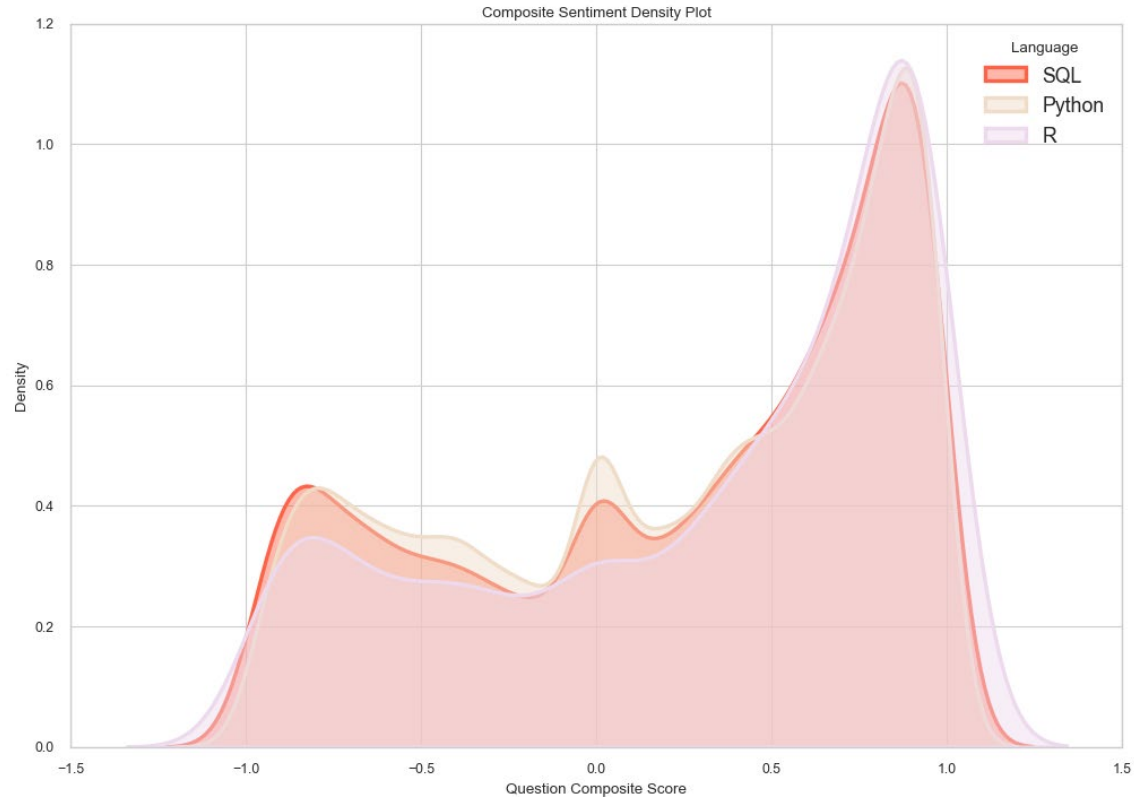


Sentiment Analysis



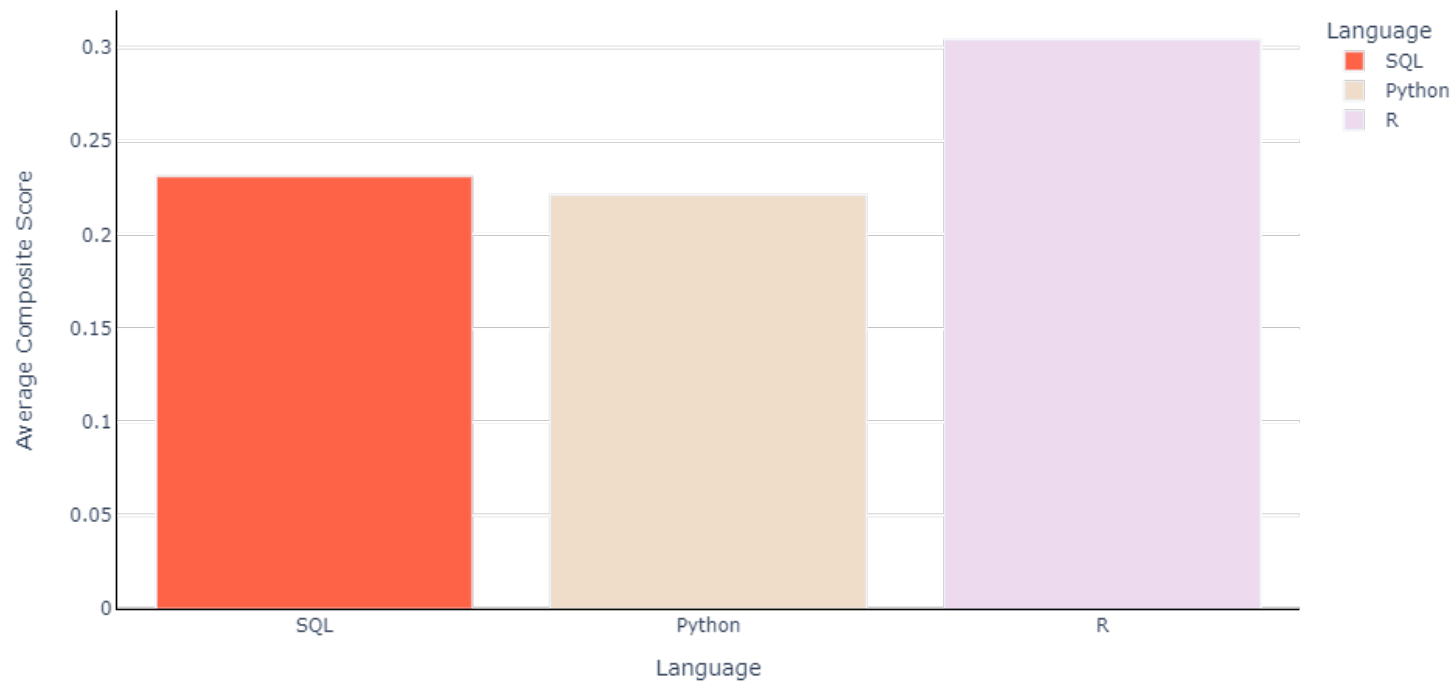


Sentiment Analysis



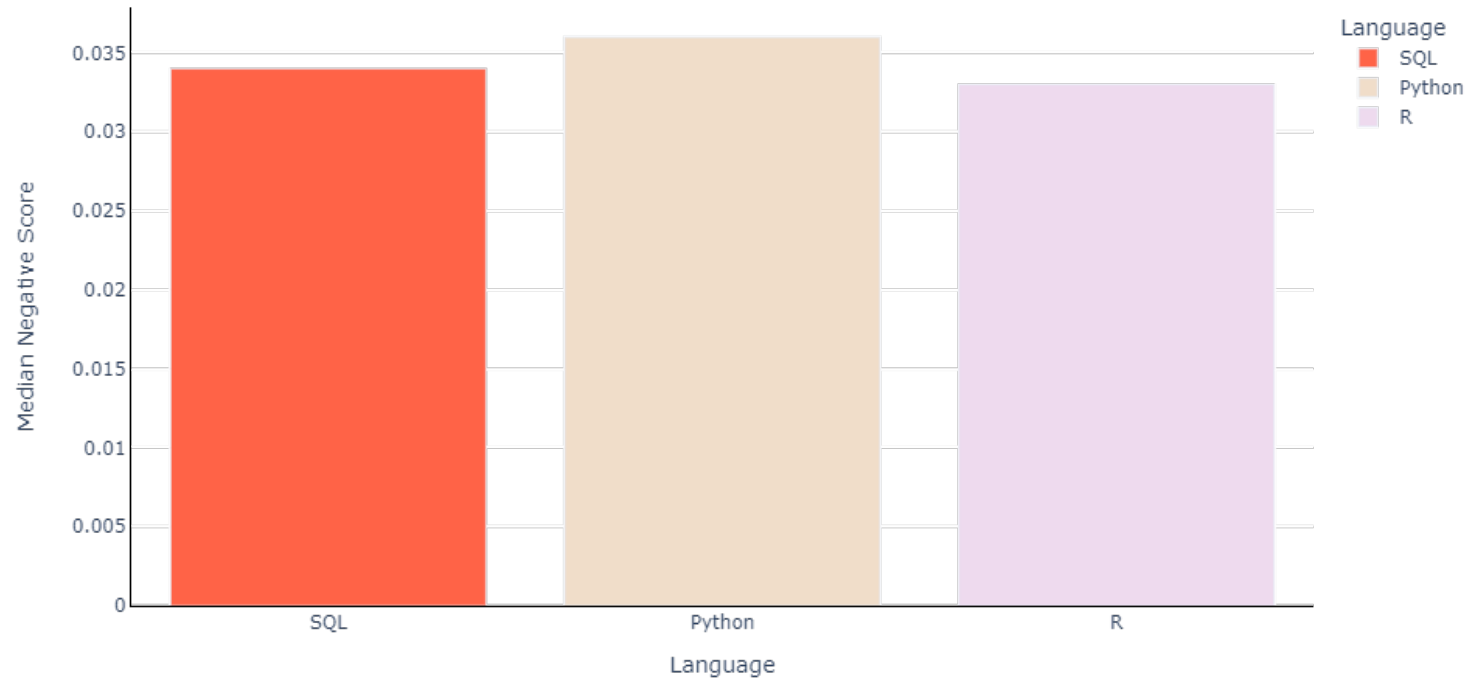


Sentiment Analysis



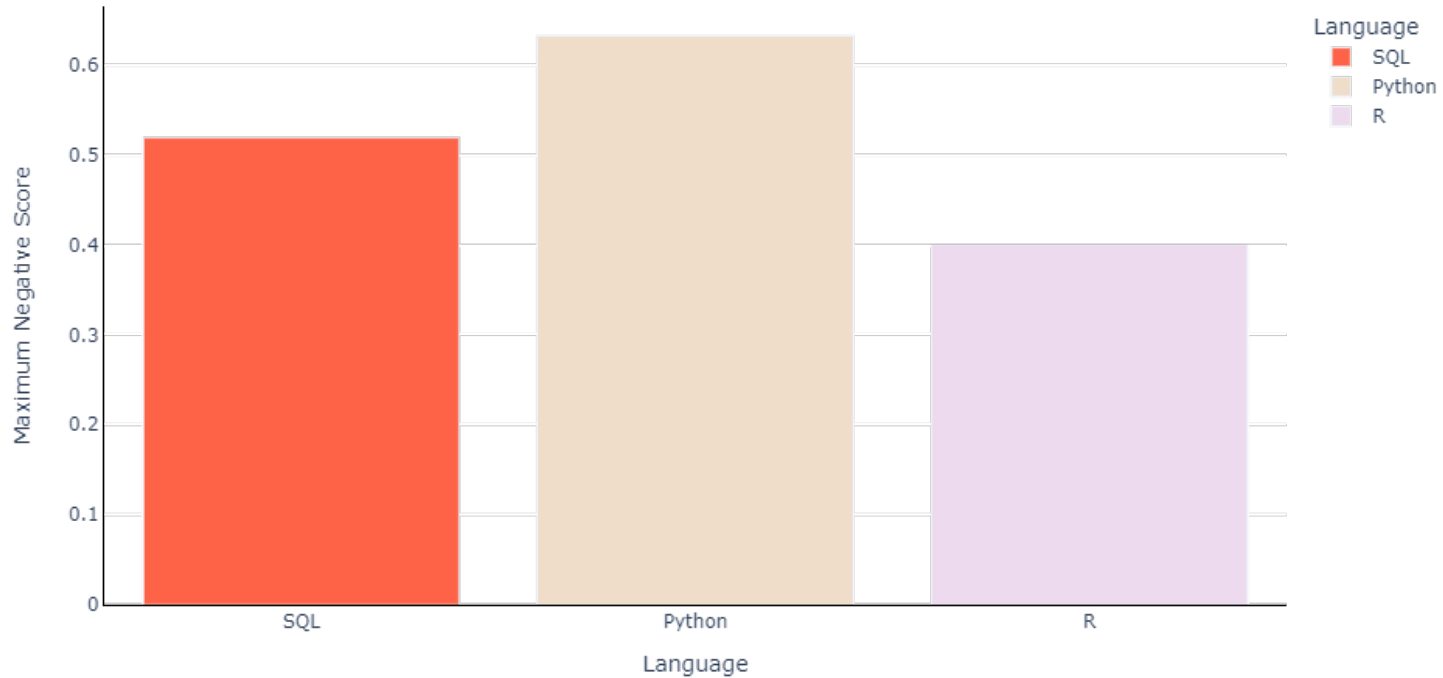


Sentiment Analysis





Sentiment Analysis





Conclusion

1. Determined that R is looked upon more favorably than Python or SQL
2. Distinguished 8 clusters in R and Python and 5 clusters in SQL
3. Analyzed network graph of terms within each of those clusters