

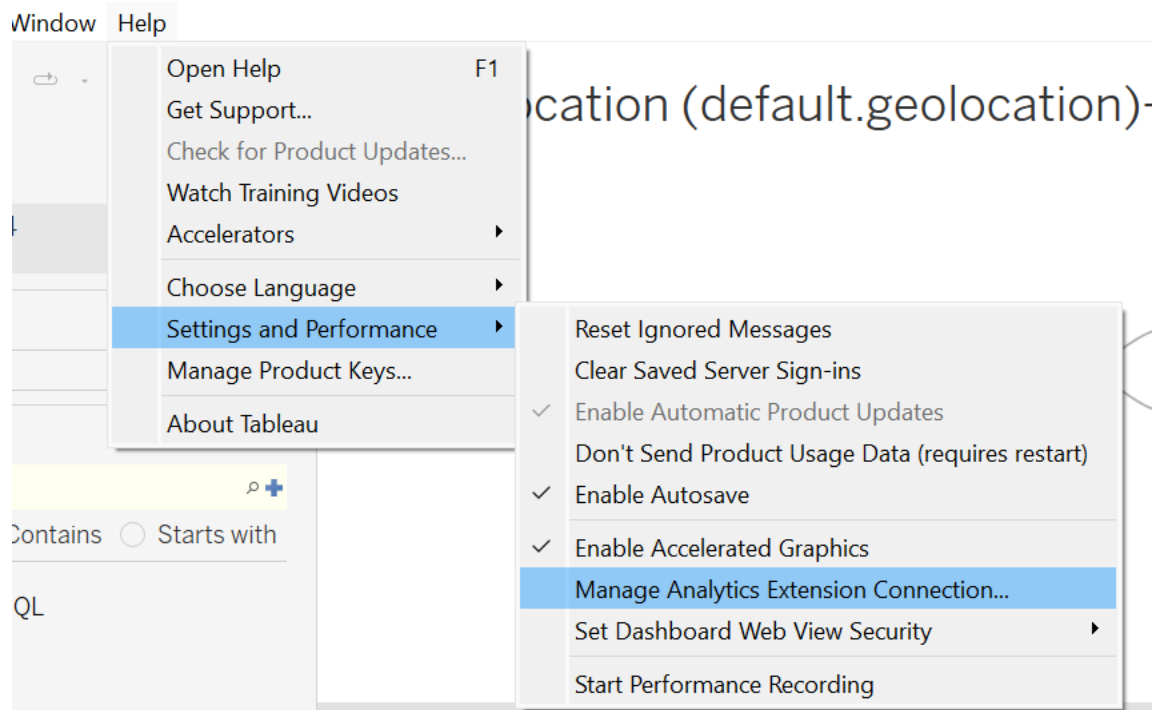
Steps for integrating R in tableau

Step 1: Firstly, to integrate R in tableau, we must download the R studio software. Next, we have to set the working directory of our tableau file and install the Rserve packages and run the library.




```
1 setwd("C:/Users/Pranav Panchal/Downloads/Big Data Project Final")
2 install.packages("Rserve")
3 library(Rserve)
4 Rserve()
5
```

Step 2: Next, go to the tableau desktop and connect with R. For that, navigate to help-> Settings and Performance->Manage Analytics Extension Connection.



A dialogue box will open, where you choose Rserve as external service and enter the required information.

Manage Analytics Extensions Connection ✕



Edit RServe Connection

☐ Require SSL

Hostname

localhost

Port

6311

☐ Sign in with username and password

Username

Password

Test Connection

Disconnect

Close

Save

Step 3: Create Calculated fields Using R scripts

In Tableau desktop, we use calculated fields to embed R scripts.

Navigate to the worksheet, and create a new calculated field “Predicted Riskfactor” (as in our example)

Use the SCRIPT_REAL function to include the R scripts.

Predicted Riskfactor

geolocation (default.geolocation)+ (default)

×

Results are computed along Table (across).

SCRIPT_REAL("
Riskfactor_norm <- .arg1;
Events <- .arg2;

fit <- lm(Riskfactor_norm~Events);
fit\$fitted.values;
"
,SUM([Riskfactor_norm]),SUM([Events])
)

Default Table Calculation

The calculation is valid.

3 Dependencies ▾

Apply

OK

From this we can get the linear regression model. Comparison of predicted riskfactor to the original risk factor.