Yelp dataset

* Using only reviews data, build a simple recommendation system first
  + Matrix factorization – derive embedding vectors for users and restaurants
* Next stage ideas
  + Clustering food preferences.
    - E.g. people who like Indian food have taste preferences similar to people who like Sri Lankan food
    - …..and maybe interesting insights like “people who prefer Swedish food have tastes very different from all other preference-based groups of people”

############################

Before you do any commit through any instances, you need to do the following operations. This will help count your commits to your contributions in repo:

git config --local user.name "other-user-name"

git config --local user.email other-email-address

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**Notes on EMR setup**

Jan 15, 2018

AWS blog on EMR setup and a few other useful things:

<https://aws.amazon.com/blogs/big-data/building-a-recommendation-engine-with-spark-ml-on-amazon-emr-using-zeppelin/>

Adding new users to your AWS instance/EMR:

<https://docs.aws.amazon.com/AWSEC2/latest/UserGuide/managing-users.html>

Make new user sudo user (increase permissions)

<https://www.helicaltech.com/create-multiple-sudo-users-to-ec2-amazon-linux/>

* Edit visudo file

<https://www.garron.me/en/linux/visudo-command-sudoers-file-sudo-default-editor.html>

* Note: the new user can now do ‘sudo su’ and assume the role of root user. This allows

Steps for a user

: Give your user.pub file to kunal

: ssh -i user.pem sooraj@ec2-54-202-177-212.us-west-2.compute.amazonaws.com

: spark-submit --packages org.mongodb.spark:mongo-spark-connector\_2.11:2.2.0 ./codes/CF.py > /home/hadoop/output1.txt --driver-memory 45G --worker-memory 45G

Steps for mongo configuration for spark

:Follow Diane’s slide

Steps for EMR cluster

:Follow the article on the EMR optimization

:Open Port 22 , 27017