Project

Goal #1

Full data cycle on cloud

1. Run queries on public datasets
2. Explore/Visualize public datasets
3. Predict using Machine Learning

Notes
- Concepts are the key. Easy to go ‘cloud hopping’
- Key goal: Do (a) full data cycle, (b) for 10s-100s of GBs of real data
● Full Query-Visualize-Learn data cycle on cloud stack
  ○ Work on 10s-100s of GBs of data on 100s of machines in cluster
  ○ See examples of multiple real datasets (COVID, ncaa, github, WorldBank, ...)
  ○ Work with popular SQL/Visualization/Learning libraries
  ○ Gain intuition of scale, performance, pain and costs in running 100s of queries

● Hop-Skip-Jump to any cloud stack or application based on same concepts

Summary
When you finish
Project . . .
1. Public datasets: [q = “BigQuery public dataset”]

2. Explore public datasets (COVID, NCAA, Weather, Hurricanes, Blockchain…)

3. Let’s pick
   a. [COVID]
      - [Schema]
● When is best time to get away with murder?
● Which cities are at risk for rising pollution?
● Election Ads in 2016
● What factors influence how much a patient pays for their treatment/drug requirements?

⇒ Last year, many strong projects. Students said project helped their internship/jobs experience.
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- Coupon valid through: 9/23/2021
- You can only request ONE code per unique email address.

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1. Signup with stanford.edu email
2. You’ll get a 50$ coupon in 1-2 minutes
3. Apply to your GMAIL account (signup if you don’t have one), **NOT** Stanford account
4. **RECOMMEND:** separate browser profile
Dear Shiva,

Here is your Google Cloud Platform Coupon Code: 0T8L-UFTY-8N7DYMP

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Course/Project Information
Instructor Name: Shiva Shivakumar
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School: Stanford
Course/project: CS 145
Activation Date: 9/21/2018
Redeem By: 1/21/2019
Coupon Valid Through: 9/21/2019

If you have any questions, please contact your course instructor as listed above.

Thanks,
Google Cloud Platform Education Grants Team