Project

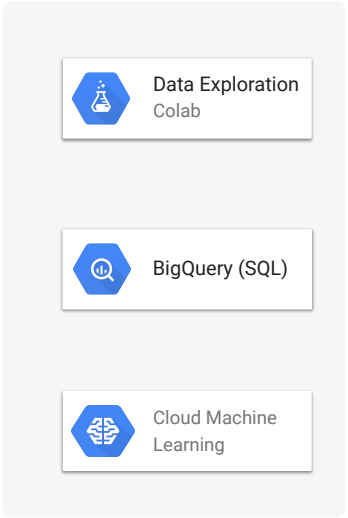
Goal #1

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

Summary

When you finish Project . . .

- 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

1. Public datasets: [q = “BigQuery public dataset”]

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

3. Let’s pick
   a. [COVID]
      - [Schema]

Sample projects from 2018 and 2019

- 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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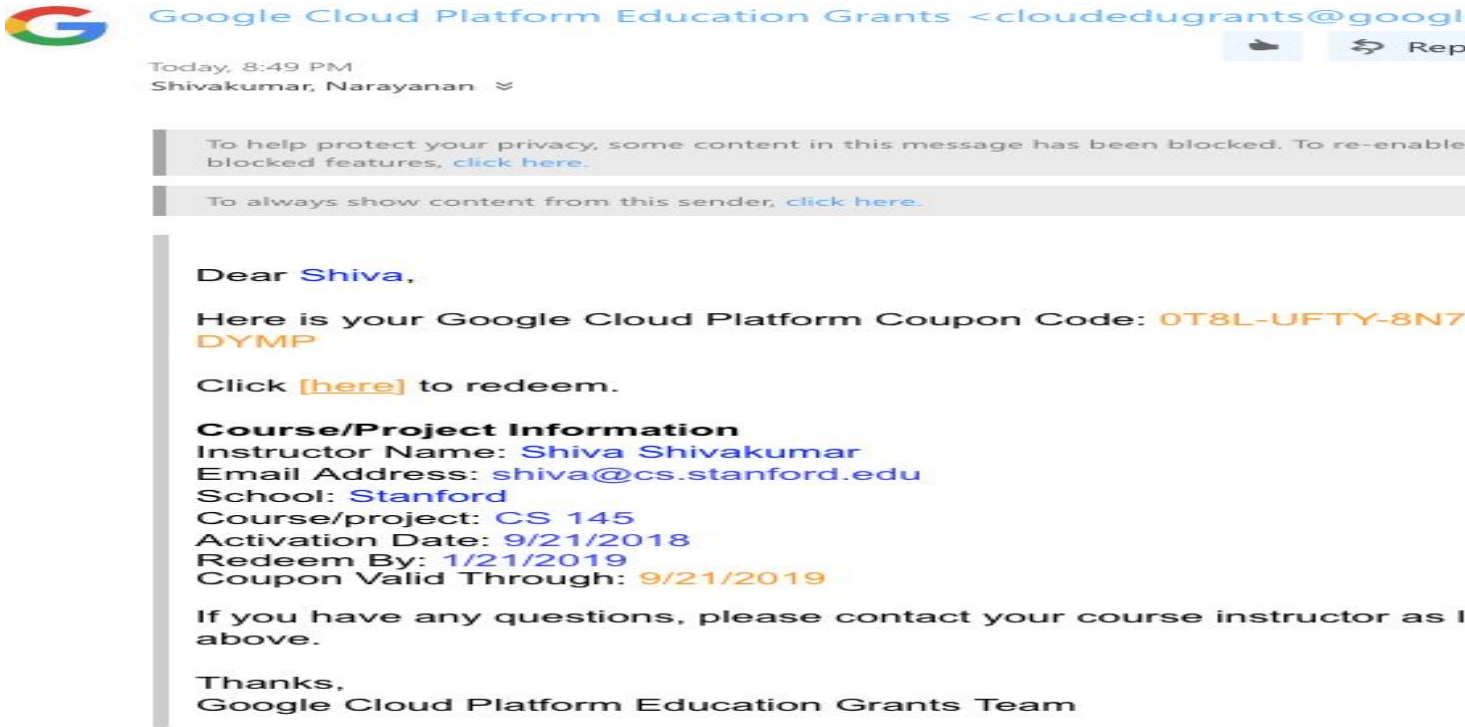
4. RECOMMEND: separate browser profile

Signup for GCP

Read Project P1

Instructions



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Course/Project Information
Instructor Name: Shiva Shivakumar
Email Address: shiva@cs.stanford.edu
School: Stanford
Course/project: CS 145
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